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From the Pen of a Computer Forensic Scientist: Windows Forensic ÿbrahim Baloÿlu

Gathering Cyber Intelligence with MaltegoAta ÿahan Erdemir

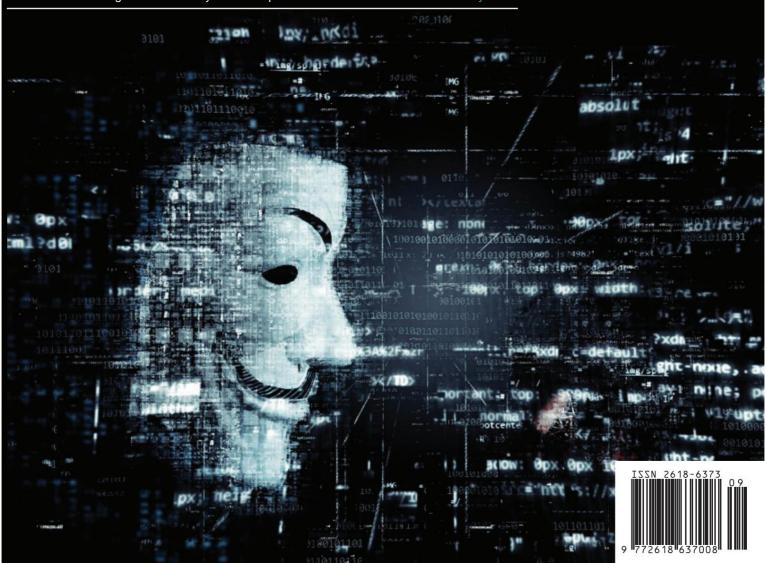
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SCADA Simulation with Raspberry PiMehmet Enes Özen

Preventive Security Measures and Bypass Methods in Android ApplicationsAhmet Gürel

Journalists' Online Security and Cyber AttacksEren Altun

Circumventing Bans in Fantasy: How to Open a Website on the TOR Network ?Ziyahan Albeniz



TAG

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FROM THE EDITOR

Arka Kapÿ Magazine is back with a full content in its 9th issue!

We have two pieces of good news for you, and good news should never be kept waiting in these days! So let's share them quickly. Our first piece of news: In this issue, we have new series of articles with our new writers! What are these? Forensic computer science topics with ÿbrahim Baloÿlu, cyber security for journalists with Eren Altun, and expert opinions for those new to cyber security with Cafer Uluç!

Our second news: As you know, there is also an international version of our national magazine, Arka Kapÿ MAG.

This month, it has also turned one year old and is growing bigger every day. :) Based on this, we will be celebrating Arka Kapÿ MAG's birthday in the next event with the MAG team.

We will be celebrating together. We share event announcements on our social media accounts. We would be happy if you follow and participate! Let's take this opportunity to get to know each other, let's get to know each other so that we can make things easier (Come and Meet Each Other, Yunus Emre).

On the other hand, we would like to openly state that we await all your opinions, such as suggestions and criticisms regarding the magazine, with curiosity and interest, and that we evaluate all comments carefully.

I greet everyone whose heart beats with goodness and beauty, and I wish you all an enjoyable reading experience.

See you in the next issue, take care.

Sahin Solmaz - editor@arkakapidergi.com

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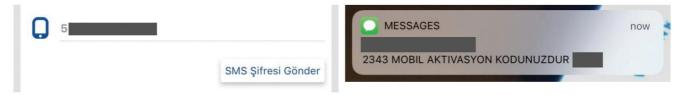
BACK DOOR

Via Internet Traffic To Mobile Applications A Look

I felt like examining the internet traffic. After thinking roughly about what I could potentially find, I threw One nightwasthe states and subject of the mysile rapid translations at the most of the mysile rapid translations and so out loud. Unaware of all this, I followed the flow of time, turned on my computer and got to work. I took some small notes for you. I will now share these notes I took for you with real examples. This is an article where I plan to give you a perspective rather than an in-depth technical article. I hope it will be an article where you can realize the correct development methods while producing an application by showing you the gaps in the simplest way. Let's start.

#1 - Application of a Cargo Company

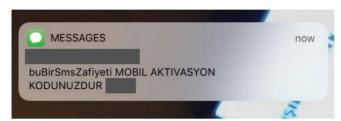
You can control your shipments by becoming a member of the application of this cargo company that I have discussed. Let's go to the registration section on the application to see what we can do.



I typed in my phone number and sent a verification code. I also check the outgoing package via BURP, but... what is that?



See? The verification code is being generated on my phone!



BACK DOOR

Ahmet Göksu / A Look at Mobile Applications via Internet Traffic

I will change the verification code and send it again.

Yes! This means that any message can be sent to any number using the company name! You can use this vulnerability as you wish. You can script it. Messages can be sent to thousands of random or specific people through this company, the company's SMS limit can be exhausted, etc. This can cause many material and moral damages to the relevant company.

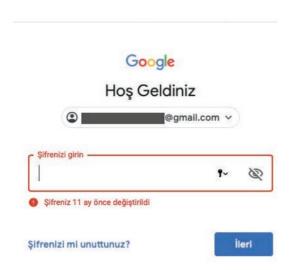
Let's move on to our second example.

#2 - Exam Preparation App

As I prepare for university these days, my interest naturally shifts to related applications. With a great enthusiasm, I open the application and look at the package that arrives...

The app is logging in to Google with my device! I try to log in immediately but I notice that the password has already been changed.

Unfortunately I have no luck trying it on other platforms. I can't get a positive result with been pwned either.





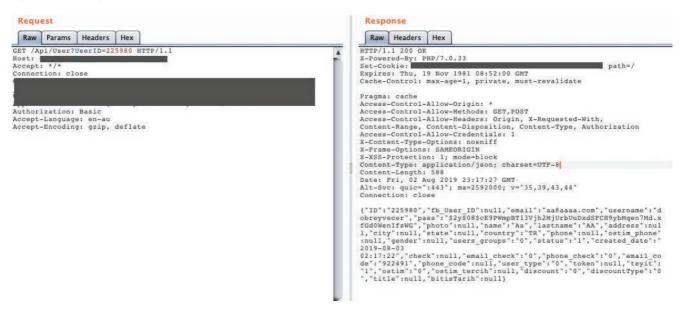
https://haveibeenpwned.com/ is a free web service that allows you to query hacked and leaked data via e-mail and password input.

Having said that, let's take a look at our next application.

Ahmet Göksu / A Look at Mobile Applications via Internet Traffic

#3 - Another App for Exams

You can benefit from lesson packages by registering to this application for free or paid. Let's see how my information is received when I log in with my own membership.



The program used is Burp Suite.

Yes, we have seen the information. Now, let's take a look at what will happen by decreasing the id value of mine, which is 225980, to 225979, which is the one I marked in the first image. :)



Oops!:)

The information returned includes the name, surname, email and password of the person who registered before me, hashed with the blowfish algorithm, as well as the phone number and address information. Thanks to the id value increasing in a pure and numerical way, it is possible to steal user information without even connecting to the database...

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Ahmet Göksu / A Look at Mobile Applications via Internet Traffic

#4 - One more :)

With this application, you can share like Facebook, and send test questions that you can't solve to get someone to help you.

You can wait. While examining the application, I liked a trigonometry question that caught my eye and the package that was sent caught my attention.

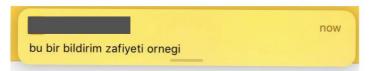
1 Kişi Beğendi



```
POST
Host:
Host:
Content-Type: text/plain
Origin: file://
Connection: close
Accept: application/json, text/plain, */*
User-Agent: Mozilla/5.0 (iPhone; CPU iPhone OS 12_1_4 like Mac OS X) AppleWebKit/605.1.15 (KHTML, like Gecko) Mobile/16D57
Accept-Language: en-au
Accept-Encoding: gzip, deflate
Content-Length: l14

{"mesaj": "gks Gönderini Beğendi.", "userId": "8841", "bildirimTipi": 2, "postId": "2163977", "iliskiliUserId": "337346"}
```

I change the notification message and the notification id value to my own and run it again. Just as I expected, a notification comes to my device.



This means that it is possible to send notifications to all users overnight with a simple script!

As you can see, all I did in the examples was to examine the internet traffic of the applications. With these steps, which can be done without any knowledge, I could send SMS or notifications to all users and ask how they are, and worse, I could access important information such as home address and phone number and go for a cup of tea.

In short:

In this article, we have examined the possible consequences of communicating only with the server and storing only the information, using real examples.

May you have beautiful and happy days, sir, where verification codes are not determined on the user device and information is stored encrypted.

See you in another article!