

Sponsored Scamming

written by Mert SARICA | 1 October 2018

As a security researcher who keeps an eye on Twitter to stay informed about developments in the world of cyber security, I noticed that as of August 2018, phishing ads targeting bank customers began to appear on Twitter. At first, I only reported these tweets to Twitter, but as the number of messages from my followers increased and these ads continued until October, I decided to take a closer look at this issue.



Tweet



Yeni Akademi
Eğitim ve Öğretim



[https://www.instagram.com/yeniakademi](#)

KATILIM YAPAN HERKESE
500 TL **WORLD PUAN**
HEDİYE!



10 ŞANSLI KİŞİYE **MERCEDES S350**



100 Kişiyeye iPhone X

YUKARIDAKİ LİNKTE
BAŞVURABİLİRSİNİZ.

11:29 · 18 Ağu 18



Sponsorlu

4 Beğeni



Tweet



**YUKARIDAKİ LINKTEN
BAŞVURABİLİRSİNİZ.**



10 Kişiyeye **Mercedes S350**



YUKARIDAKİ LINKTEN
BAŞVURABİLİRSİNİZ.



100 Kişiyeye iPhone X



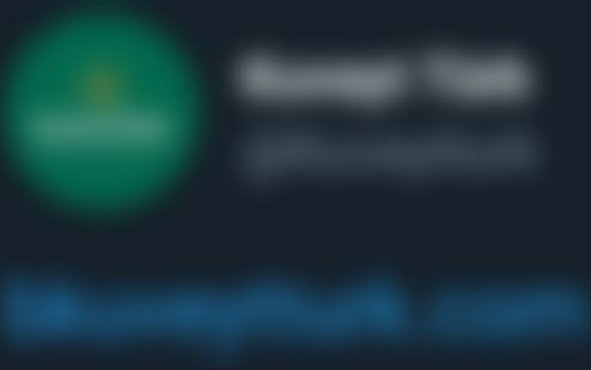
100 Kişiyeye iPad Air

12:32 · 29 Ağu 18

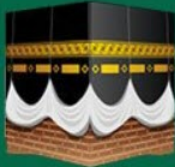
3 Beğeni



Tweet



15 KİŞİYE NISSAN QASHQAI



500 KİŞİYE
UMRE FIRSATI



1000 KİŞİYE
TAM ALTIN



100 KİŞİYE
IPHONE X

YUKARIDAKİ LİNKTE
BAŞVURABİLİRSİNİZ

12:57 · 19 Eyl 18

4 Retweet 53 Beğeni



Nurseda ÖZDEMİR

@nursedaozdemr



Hocam bu yeni, size havale ediyorum 😊

twitter.com/...

8 Eyl



Aynen hocam, ilginç olan twitter'a katılım tarihleri 2013, 2016 vs.
Yeni hesap da değiller.

8 Eyl



Tarık Yıldız 
@tarikyildiz52



mert hocam selam :)

[Redacted]

twitter.com/

:)



nasolda olta 7 atmış

19 Eyl

Takipçiler
19

Medya

1

Tweetle

 Fotoğraflar ve videolar



KATILIM YAPAN HERKESE
500 TL **WORLD PUAN**
HEDİYE!



100 Kişiyi iPhone X

10 ŞANSLI KİŞİYE MERCEDES S350

**YUKARIDAKİ LİNKTE
BAŞVURABİLİRSİNİZ.**

12



9



Yapi Kredi (@yapikredi) | Twitter x

https://twitter.com/ /likes

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Anasayfa Bildirimler Mesajlar

Twitter'da Arı

Tweetler 83 Takip Edilen 42 Takipçiler 52 Beğeni 689

MERVE @mery_duzenli · 16 Haz
Az önce amcam onca misafirin içinde küçükken saçımı traş ettiğini anlattı benim üstümden berber yeteneğini açıkladı ve ben hala o ortamdayım

Fatmanur Demir @FatmanurDmrr · 12 Haz
Nerden buluyor bu düzgün adamlar sizi.Beni nerde beyin yoksunu biri varsa o buluyor.Benim bulduğumda neyse yine sinirlendim.Konu kapansın.

Fatmanur Demir @FatmanurDmrr · 11 Haz
Bu nasıl sezon finali beee
#Çukur

Kader Adıgüzel @kaderadgzl · 11 Haz
Bunları yapan cumali değilse adım kader değil #çukur #çukursezonfinali

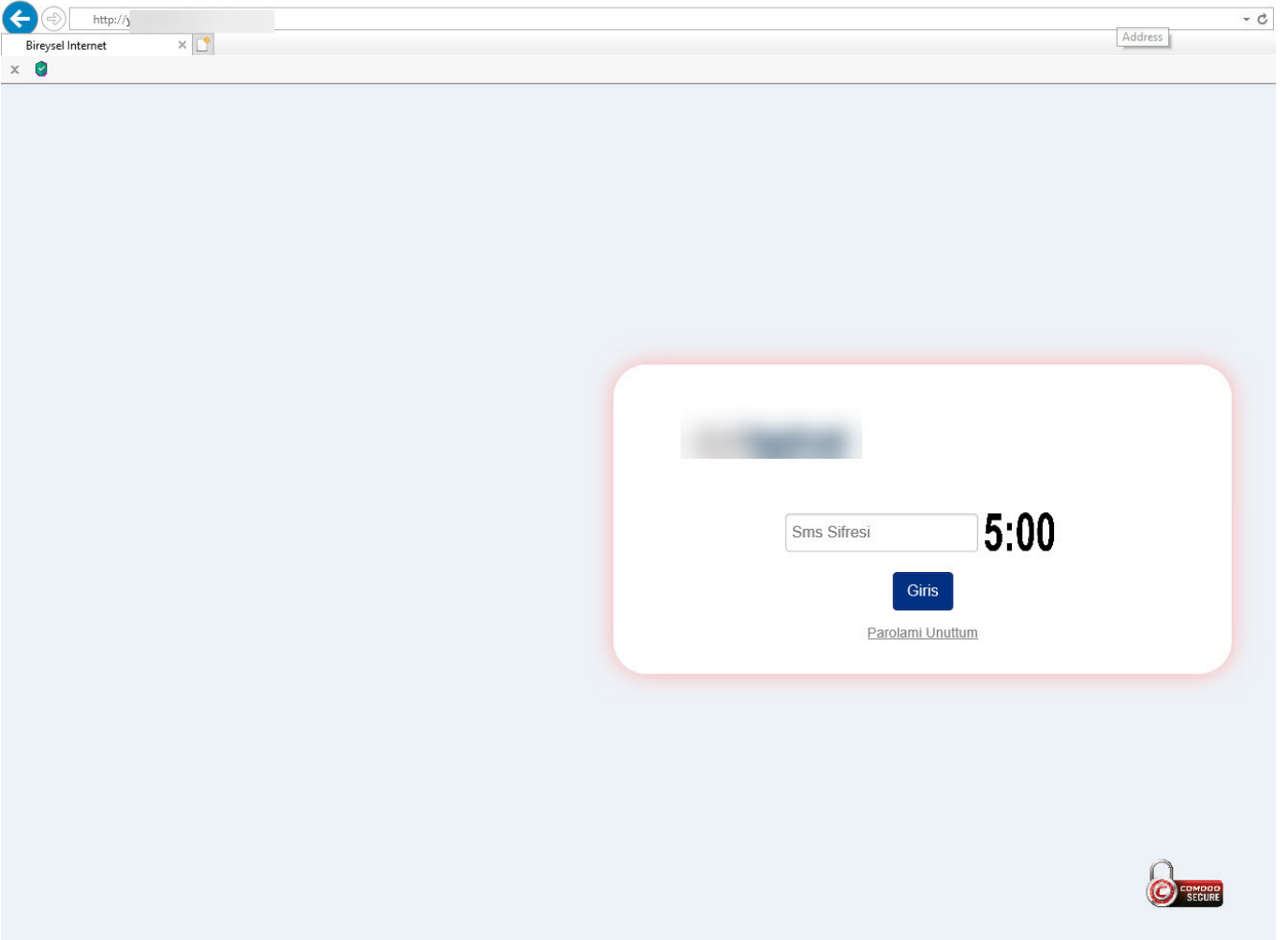
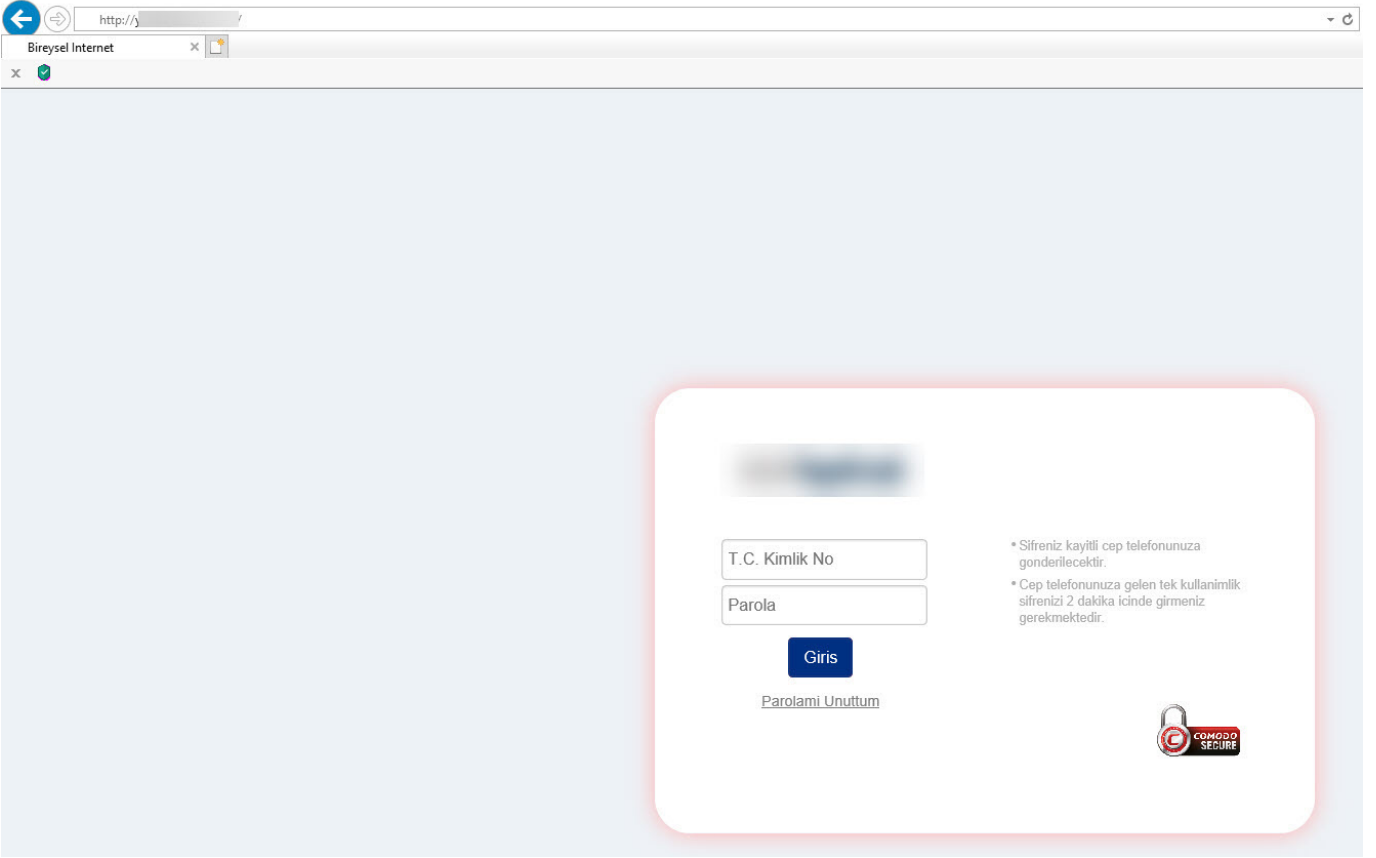
Rabia Akay @Rabiakayy · 10 Haz
Tanrım kötü kullarını sen affetsen ben affetmem diye diye Bartına gidiyorum.

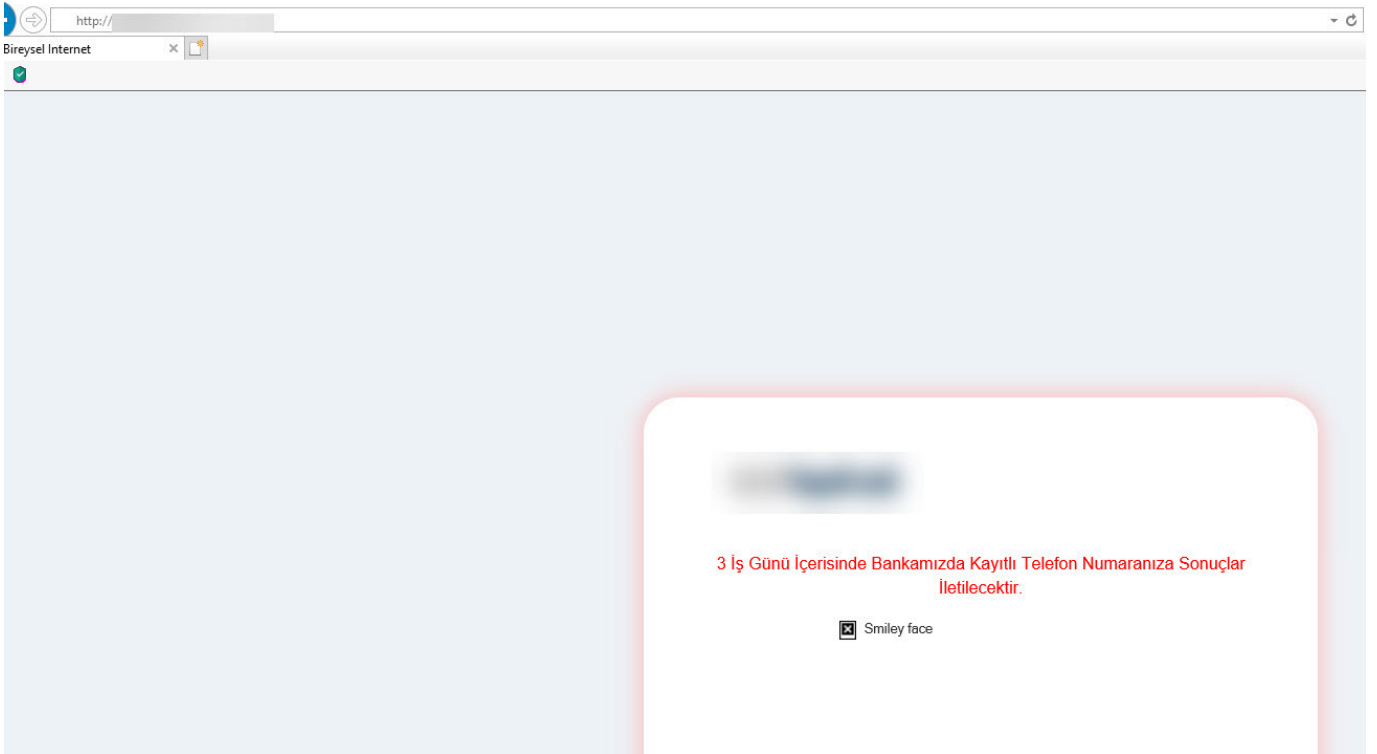
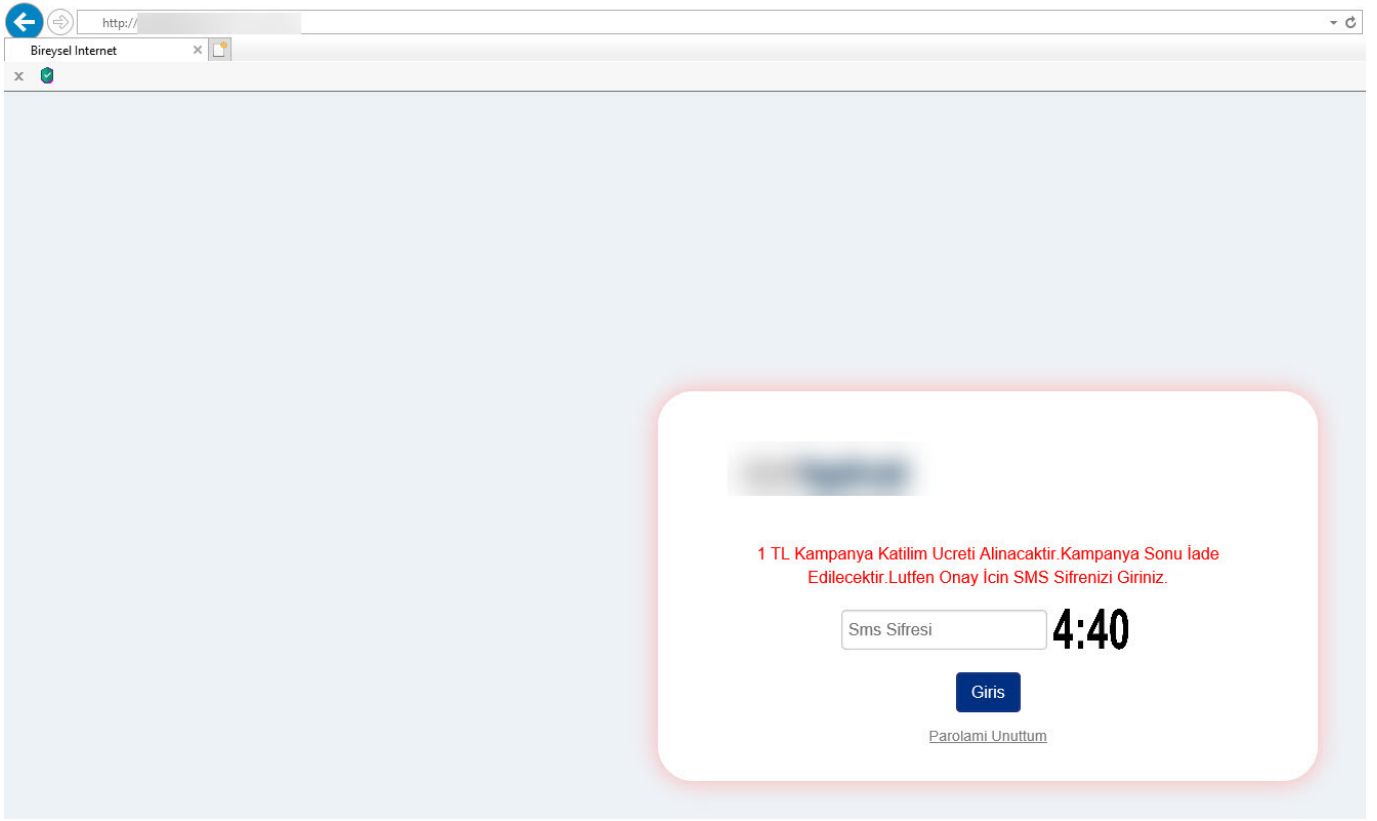
Rabia Akay @Rabiakayy · 7 Haz
Şu hayatta ki en zor şey yıldızlanan notun açıklanmasını beklemek.

Rabia Akay @Rabiakayy · 3 Haz
Bu kadar cahil kalmayı.bu kadar beyninizi kullanmaktan vazgeçmeyi nasıl beceriyorsunuz? Altıtarafı okuyacak ve düşünceksiniz.

Rabia Akay @Rabiakayy · 3 Haz
#sensorgelsinacimdinsin

When I followed the link in one of the phishing tweets, I found that the scammers were stealing the customer's username, password, verification code sent via SMS, and transfer verification code used during internet banking login.





Like many of you, when I see these sponsored phishing ads on Twitter, I have some questions and answers that come to mind:

1. Why can't Twitter take action to block these phishing ads that have been the subject of complaint reports for months and look very similar to each other?
2. How is it possible that some of the accounts used for phishing tweets were created years ago?

3. How can similar phishing tweets be detected?

As I looked for answers to these questions one by one, I can say that while I was unable to find an answer to the first question, I was surprised that Twitter appeared to be so helpless (or perhaps indifferent) in the face of these phishing ads. When I came to answer the second question, the likely reason that these accounts used for phishing are old, as stated on Twitter's help page, was that they allow users to change their username. Based on this information, it can be said that these accounts used for phishing are probably hacked and used by scammers for their own purposes. As for the third question, how to detect phishing tweets, I decided to conduct a study using Optical Character Recognition (OCR) technology by identifying common keywords in Turkish such as "LUCKY" , "PARTICIPANT", "ABOVE" in most messages.



After seeing that most bank customers are facing these phishing tweets and shared by official Twitter accounts of the banks, I quickly started to design a tool in my mind. The basic things the tool had to do were to search for bank names on Twitter, download the images shared in the tweets, analyze them using OCR, and send an email warning when the keywords “LUCKY” , “PARTICIPANT” , “ABOVE” were detected. I began coding this tool using Python, taking advantage of the Tweepy library, and a short time later, my Phishing Tweet Detector was developed.

After running the tool, a short time later, it was able to detect a phishing tweet shared by a Twitter user with a bank, and this helped the institution to fight against such scammers, thus my idea of helping citizens and institutions to fight against these types of scammers was successfully implemented. :)

Phishing Tweet Detector [https://www.mertsarica.com]

```
[+] checking tweets for keyword:
[+] Downloading image: http://pbs.twimg.com/media/DnpIE-TwAA013y.jpg
[+] Running OCR on: DnpIE-TwAA013y.jpg
[+] Downloading image: http://pbs.twimg.com/media/DnoY0GuXCAAOiOb.jpg
[+] Running OCR on: DnoY0GuXCAAOiOb.jpg
[+] Downloading image: http://pbs.twimg.com/media/Dnou-Njw4AEPnXK.jpg
[+] Running OCR on: Dnou-Njw4AEPnXK.jpg
[+] Downloading image: http://pbs.twimg.com/media/DnniAqAXoAAC2bw.jpg
[+] Running OCR on: DnniAqAXoAAC2bw.jpg
[+] Downloading image: http://pbs.twimg.com/media/DnmwLjzx0AA1Yc2.jpg
[+] Running OCR on: DnmwLjzx0AA1Yc2.jpg
[+] Downloading image: http://pbs.twimg.com/media/Dn1sBwXV4AAhBQ5.jpg
[+] Running OCR on: Dn1sBwXV4AAhBQ5.jpg
[+] Downloading image: http://pbs.twimg.com/media/DnkpKzkW0A4ueP4.jpg
[+] Running OCR on: DnkpKzkW0A4ueP4.jpg
[+] Downloading image: http://pbs.twimg.com/media/DnkF_mcw4AIJYSE.jpg
[+] Running OCR on: DnkF_mcw4AIJYSE.jpg
[+] Downloading image: http://pbs.twimg.com/media/DnjdcX-X4AApjr1.jpg
[+] Running OCR on: DnjdcX-X4AApjr1.jpg

[!] Phishing tweet detected! -> Screen Name: ilksonbahar Name: Ocak Subat ÖVİ'ÖVİ. Media URL: http://pbs.twimg.com/media/DnjdcX-X4AApjr1.jpg Tweet URL: https://t.co/G6hQBOexc1


[+] Downloading image: http://pbs.twimg.com/media/DnjMsulwAA6p_d.jpg
[+] Running OCR on: DnjMsulwAA6p_d.jpg
[+] Downloading image: http://pbs.twimg.com/media/DnjIuT0WwAEqAM0.jpg
[+] Running OCR on: DnjIuT0WwAEqAM0.jpg
```


Okac Subat tr Twitter'da: X


Secure | https://twitter.com/ilksonbahar/status/1042826800139825152/photo/1

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Anasayfa Bildirimler Mesajlar Twitter'da Ara



Ocak Subat 
@ilksonbahar
Gfghdtujds1 fragj
Ghhgh
Aralık 2016 tarihinde katıldı

Ocak Subat 
@ilksonbahar Takip et

sizinle alakasi var mi?

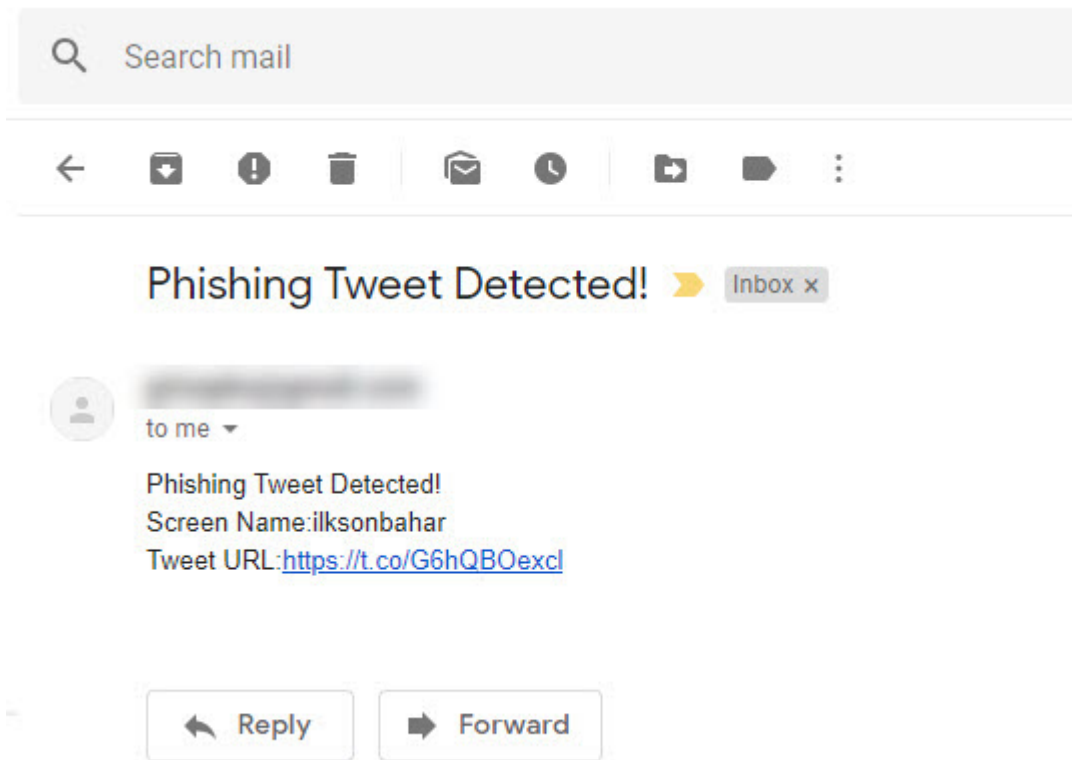
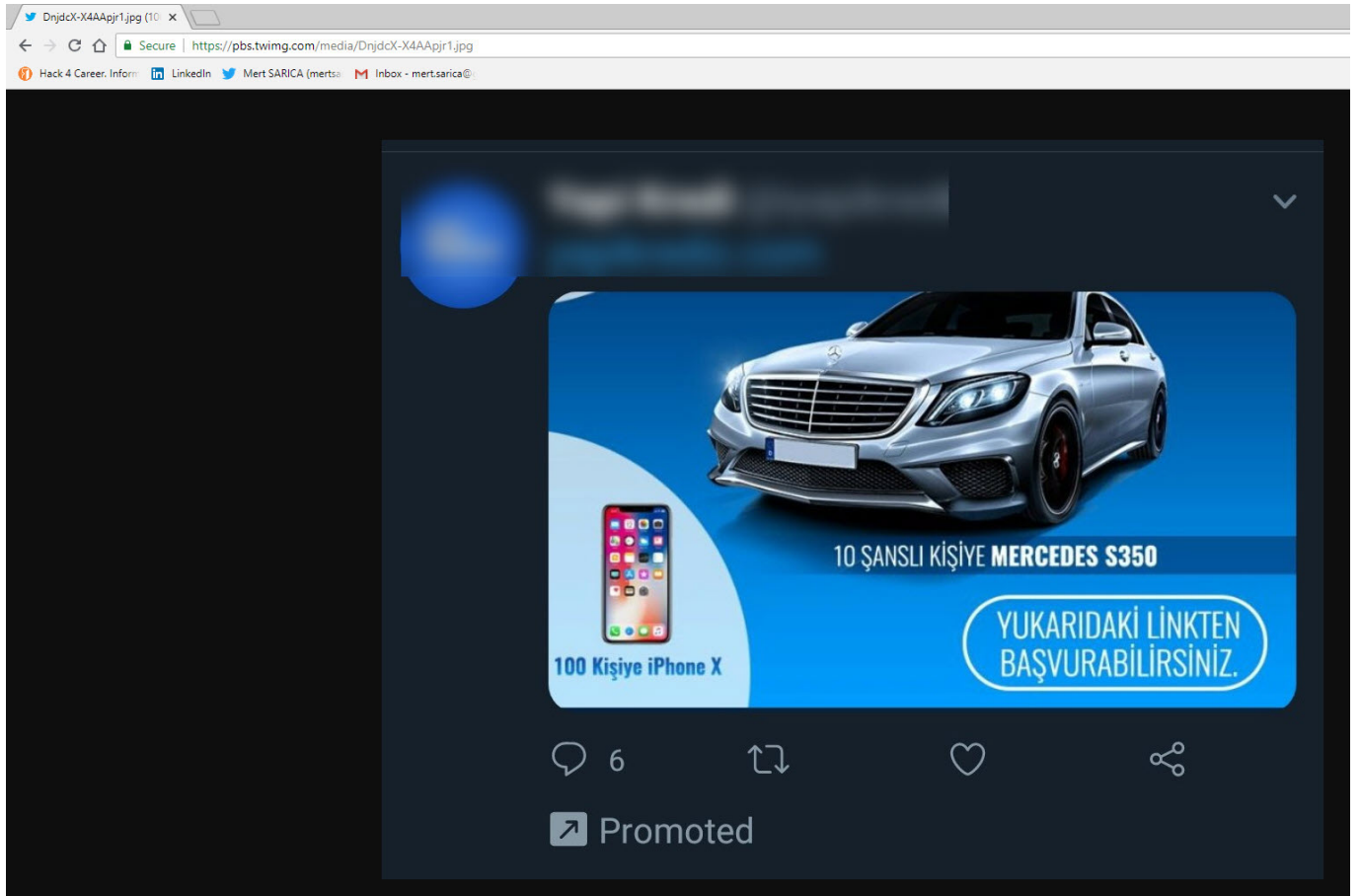


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6 1 20 Eyl 2018

Yanıtını Tweetle

@ilksonbahar adlı kullanıcıya yanıt olarak
Merhaba, paylaşım bankamıza ait değildir, kişisel güvenliğinizi için itibar etmemenizi rica ederiz. Güncel güvenlik duyurularımıza banka... adresinden ulaşabilirsiniz. Teşekkür ederiz.



Before I put an end to my article, I would like to emphasize that it is very, very important for those who come across phishing messages to report them to their banks and the social media platform as soon as possible (just like reporting a Tweet).



21 Tweet



Haziran 2013 tarihinde katıldı

290 Takip edilen 110 Takipçi

Tweet

Tweetler ve yanıtlar

Medya

Beğeni

· 18sa



5



· 18sa



47



39





Tweet

Ana Tweet ekle

Bağlantıyı kopyala

[blurred] adlı kişiyi takip et

[blurred] adlı kişiyi
sessize al

Bu sohbeti sessize al

[blurred] adlı kişiyi engelle

Tweeti bildir



Hope to see you in the following articles.