Tracking Down the [A]pache Phishing Kit

CHECK POINT
RESEARCH

Cyberint
Protection Beyond the Perimeter

INTRODUCTION

In our latest research into the dark and dangerous world of phishing kits, Check Point Research and CyberInt have joined forces to show you how one of the most advanced phishing kits, the [A]pache Next Generation Advanced Phishing Kit, is currently being promoted and used on the Dark Net.

Allowing any aspiring cyber-criminal with very little knowledge to run a professional phishing campaign, our research outlines how the notorious [A]pache Phishing Kit is promoted online and instructs those looking to steal customers' credit card details by luring them to a fake shopping site.

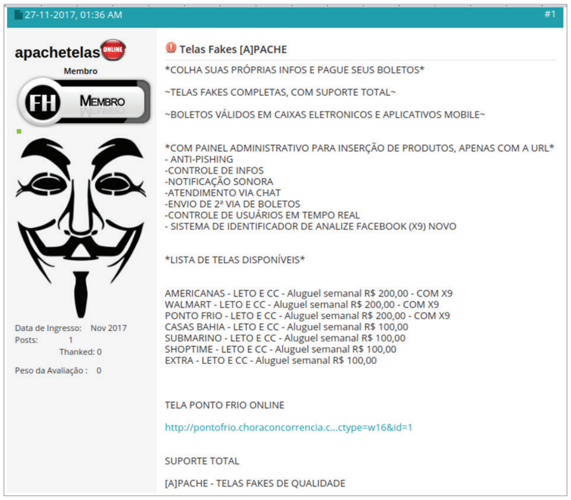
A recent Check Point survey revealed that 65% of organizations have been prey to phishing attempts in a business context, with cyber-criminals often using the technique to gain access to an organization's network or sensitive information. As far as consumers are concerned, the target audience for [A]pache's efforts, it is their personal and financial credentials that are at stake.

Read the step by step guide below to see how [A]pache encourages and teaches his partners how to set up a sophisticated phishing scheme in minimal time, and the methods he uses to lure unsuspecting consumers into handing over their financial details.

Step 1: Access The Dark Web and Find [A]pache's Phishing Kit Advertisement

[A]pache makes it easy for those with very little technical ability to carry out their own cyber-attack. His cyber-criminal audience can simply download his multi-functioning phishing kit and following his installation instructions.

At $100-$300, the cost is higher than more standard phishing kits. Standard kits usually retail at $20-$50, with some even free, as they only provide login pages and prompts for personal and financial information. With [A]pache's next generation phishing kit however, threat actors are provided with a full suite of tools to carry out their attack. These include an entire back-office interface with which they can create convincing fake retail product pages and manage their campaign.



27-11-2017, 01:36 AM #1

apachetelas ONLINE
Membro
FH Membro

Data de Ingresso: Nov 2017
Posts: 1
Thanked: 0
Peso da Avaliação : 0

Telas Fakes [A]PACHE

COLHA SUAS PRÓPRIAS INFOS E PAGUE SEUS BOLETOS

~TELAS FAKES COMPLETAS, COM SUPORTE TOTAL~

~BOLETOS VÁLIDOS EM CAIXAS ELETRONICOS E APLICATIVOS MOBILE~

COM PAINEL ADMINISTRATIVO PARA INSERÇÃO DE PRODUTOS, APENAS COM A URL
- ANTI-PISHING
-CONTROLE DE INFOS
-NOTIFICAÇÃO SONORA
-ATENDIMENTO VIA CHAT
-ENVIO DE 2ª VIA DE BOLETOS
-CONTROLE DE USUÁRIOS EM TEMPO REAL
- SISTEMA DE IDENTIFICADOR DE ANALIZE FACEBOOK (X9) NOVO

LISTA DE TELAS DISPONÍVEIS

AMERICANAS - LETO E CC - Aluguel semanal R$ 200,00 - COM X9
WALMART - LETO E CC - Aluguel semanal R$ 200,00 - COM X9
PONTO FRIO - LETO E CC - Aluguel semanal R$ 200,00 - COM X9
CASAS BAHIA - LETO E CC - Aluguel semanal R$ 100,00
SUBMARINO - LETO E CC - Aluguel semanal R$ 100,00
SHOPTIME - LETO E CC - Aluguel semanal R$ 100,00
EXTRA - LETO E CC - Aluguel semanal R$ 100,00

TELA PONTO FRIO ONLINE

http://pontofrio.choraconcorrencia.c...ctype=w16&id=1

SUPORTE TOTAL

[A]PACHE - TELAS FAKES DE QUALIDADE

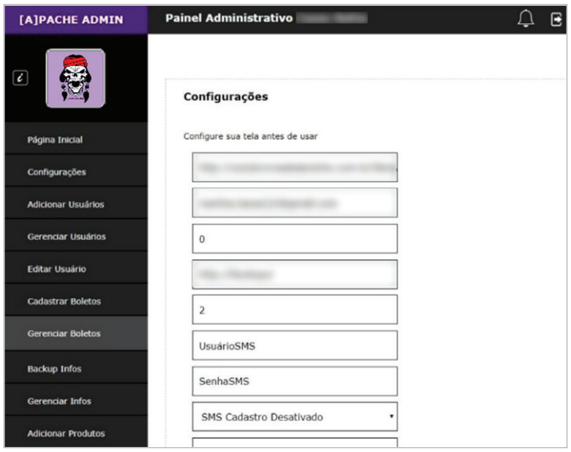
Figure 1: *A posting on the Dark Net that advertises the [A]pache phishing kit.*

Step 2: Choose a Retailer to Impersonate

[A]pache's phishing kit offers many well-known brands to choose from. Options include: Walmart, Americanas, Ponto Frio, Casas Bahia, Submarino, Shoptime and Extra. As most of these retailers are for a Brazilian audience, it seems this kit is aimed at those with a good knowledge of Portuguese, though we also found some kits that targeted US brands too.

Step 3: Register a Suitable Domain with Which to Lure Victims

In order to convincingly persuade their victims that they are shopping at the genuine site they think they are at, cyber-criminals also need a domain that is similar to the targeted brand, for example, www.walmart-shopping.com. Once registered, they are ready to deploy the kit to a PHP and MySQL supported web host, log in to the kit's admin panel and begin configuring their campaign.



Painel Administrativo [redacted]

Configurações

Configure sua tela antes de usar

[redacted]

[redacted]

0

[redacted]

2

UsuárioSMS

SenhaSMS

SMS Cadastro Desativado

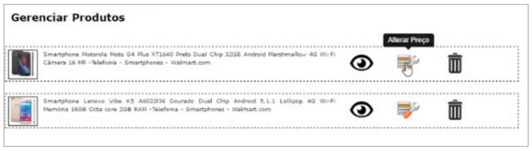
Figure 2: *The phishing kit's admin panel.*

Configuration options include:

- **Email:** Select the email address for notifications of new phished information to be sent to.
- **URL:** Select the URL upon which the phishing site sits.
- **Payments:** Choose to disable 'Boleto Bancário'[1] payments. This will force the potential victims to enter their credit card data, or display fake Boleto details.
- **Product Management:** Insert legitimate product URLs from the target retailer's website for automatic import and configure the display price to lure targets.
- **Victim Information Management:** Once the victims have been 'phished', their information can be displayed within the admin panel, both in full and as a list of credit card details.

[1] https://en.wikipedia.org/wiki/Boleto

Step 4: Add Products to the Fake Retail Site



Gerenciar Produtos

Smartphone Motorola Moto G4 Plus XT1640 Preto Dual Chip 32GB Android Marshmallow 4G Wi-Fi Câmera 16 MP -Telefonia - Smartphones - Walmart.com

Smartphone Lenovo Vibe K5 A6020l36 Dourado Dual Chip Android 5.1.1 Lollipop 4G Wi-Fi Memória 16GB Octa core 2GB RAM -Telefonia - Smartphones - Walmart.com

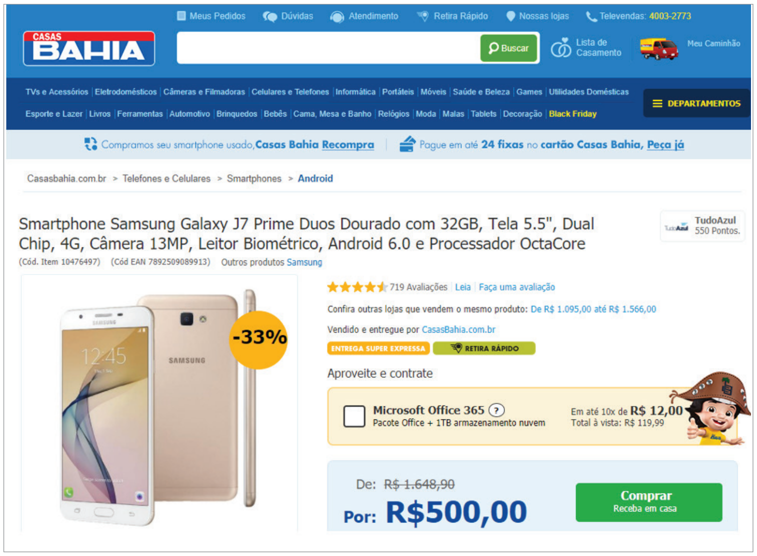
Figure 3: *Product price setting in the admin panel.*

To simplify this process, [A]pache has made a simple user interface within the admin panel where the threat actor can paste the product URL of the legitimate retailer and the kit will automatically import the product information into the phishing page. They can then view their 'products' and change their original prices.

Step 5: Set Product Prices

Like any shop, the fake phishing site needs to also be competitive, so the product prices should aim to be attractive in order to motivate potential 'customers' to click on the items and proceed to checkout. Care needs to be taken here though as reducing prices too low though would raise suspicions with captivated 'customers'.

The cyber-criminal is now set to promote their site and lure in his victims.



Meus Pedidos
Dúvidas
Atendimento
Retira Rápido
Nossas lojas
Televendas: 4003-2773
CASAS BAHIA
Buscar
Lista de Casamento
Meu Caminhão
TVs e Acessórios | Eletrodomésticos | Câmeras e Filmadoras | Celulares e Telefones | Informática | Portáteis | Móveis | Saúde e Beleza | Games | Utilidades Domésticas
Esporte e Lazer | Livros | Ferramentas | Automotivo | Brinquedos | Bebês | Cama, Mesa e Banho | Relógios | Moda | Malas | Tablets | Decoração | Black Friday
DEPARTAMENTOS
Compramos seu smartphone usado, Casas Bahia Recompra
Pague em até 24 fixas no cartão Casas Bahia, Peça já
-33%
ENTREGA SUPER EXPRESSA
RETIRA RÁPIDO
Comprar
Receba em casa

Casasbahia.com.br > Telefones e Celulares > Smartphones > Android

Smartphone Samsung Galaxy J7 Prime Duos Dourado com 32GB, Tela 5.5", Dual Chip, 4G, Câmera 13MP, Leitor Biométrico, Android 6.0 e Processador OctaCore

(Cód. Item 10476497) (Cód EAN 7892509089913) Outros produtos Samsung

TudoAzul 550 Pontos.

719 Avaliações | Leia | Faça uma avaliação

Confira outras lojas que vendem o mesmo produto: De R$ 1.095,00 até R$ 1.566,00

Vendido e entregue por CasasBahia.com.br

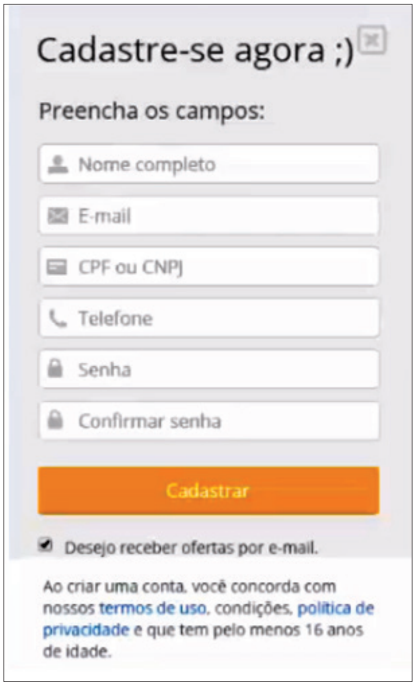
Aproveite e contrate

□ Microsoft Office 365 ? Pacote Office + 1TB armazenamento nuvem — Em até 10x de R$ 12,00 Total à vista: R$ 119,99

De: ~~R$ 1.648,90~~

Por: R$500,00

Figure 4: *The fake shopping website generated by the phishing kit.*



Cadastre-se agora ;)

Preencha os campos:

Nome completo

E-mail

CPF ou CNPJ

Telefone

Senha

Confirmar senha

Cadastrar

☑ Desejo receber ofertas por e-mail.

Ao criar uma conta, você concorda com nossos termos de uso, condições, política de privacidade e que tem pelo menos 16 anos de idade.

Figure 5: *Payment form as served by the phishing kit.*

Step 6: Heading to Checkout

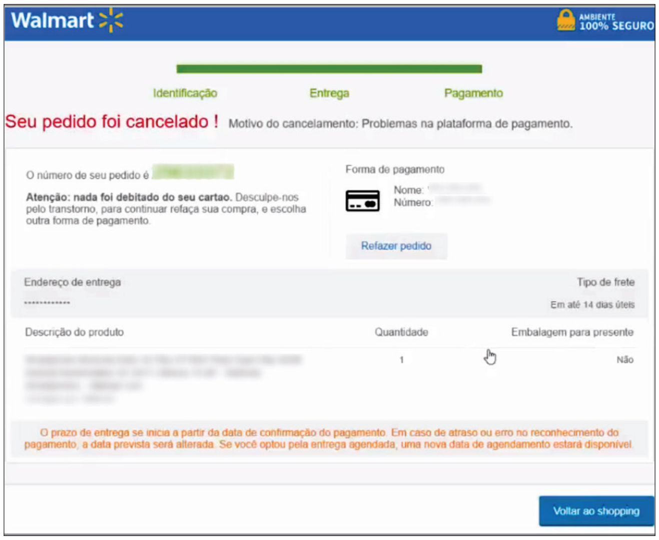
When customers click through from the threat actor's email, social media link or any other way in which they could be sending traffic, the site will look exactly like the target site and customers can proceed to checkout with no suspicions raised. At this point they would enter their payment and delivery details.

[A]pache's high-end phishing kit also comes with an automated post-code look-up function for added conviction.

Step 7: Check the Admin Panel

With payment details entered and sent straight to the threat actor's database, including the CVV number, they can then check the kit's back-office admin panel to see the victim's personal and financial information.

Meanwhile, after the victim has entered their payment details, they are presented with a notification that the payment process has failed. This helps convince them to not be concerned when the purchased fake product does not arrive.



Walmart

AMBIENTE 100% SEGURO

Identificação Entrega Pagamento

Seu pedido foi cancelado ! Motivo do cancelamento: Problemas na plataforma de pagamento.

O número de seu pedido é [redacted]

Atenção: nada foi debitado do seu cartao. Desculpe-nos pelo transtorno, para continuar refaça sua compra, e escolha outra forma de pagamento.

Forma de pagamento

Nome: [redacted]
Número: [redacted]

Refazer pedido

Endereço de entrega
****

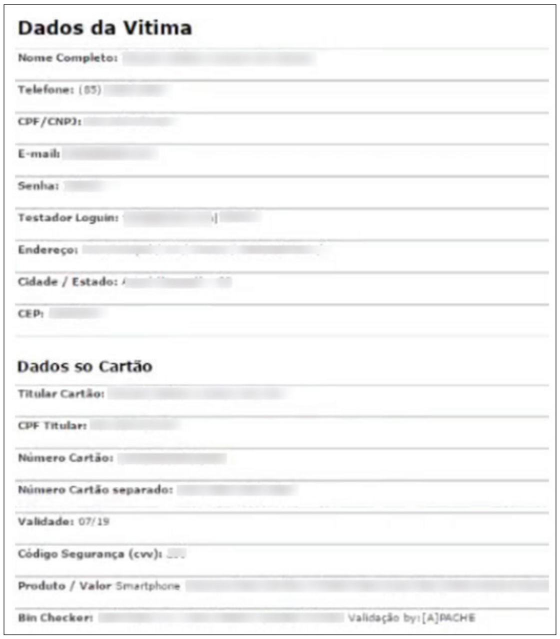
Tipo de frete
Em até 14 dias úteis

Descrição do produto	Quantidade	Embalagem para presente
[redacted]	1	Não

O prazo de entrega se inicia a partir da data de confirmação do pagamento. Em caso de atraso ou erro no reconhecimento do pagamento, a data prevista será alterada. Se você optou pela entrega agendada, uma nova data de agendamento estará disponível.

Voltar ao shopping

Figure 7: *The payment error page shown to victim.*



Dados da Vitima

Nome Completo: [redacted]
Telefone: (85) [redacted]
CPF/CNPJ: [redacted]
E-mail: [redacted]
Senha: [redacted]
Testador Loguin: [redacted]
Endereço: [redacted]
Cidade / Estado: [redacted]
CEP: [redacted]

Dados so Cartão

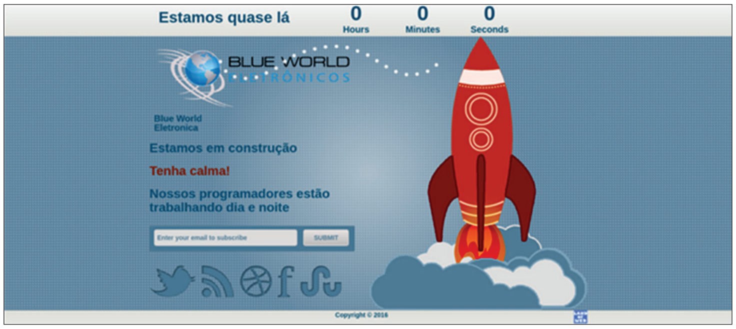
Titular Cartão: [redacted]
CPF Titular: [redacted]
Número Cartão: [redacted]
Número Cartão separado: [redacted]
Validade: 07/19
Código Segurança (cvv): [redacted]
Produto / Valor Smartphone [redacted]
Bin Checker: [redacted] Validação by:[A]PACHE

Figure 6: *The admin panel collects victims' financial details.*

Who Is [A]pache?

Our research team was able to find some hints and links to the possible entities behind this phishing kit.

For example, once an attack is over, cyber-criminals usually take down the fake retail site in order to lower the risks of being caught. In this case however, we found a custom built 'error 404' site in use.



Estamos quase lá

0 Hours 0 Minutes 0 Seconds

BLUE WORLD ELETRÔNICOS

Blue World Eletronica

Estamos em construção

Tenha calma!

Nossos programadores estão trabalhando dia e noite

Enter your email to subscribe SUBMIT

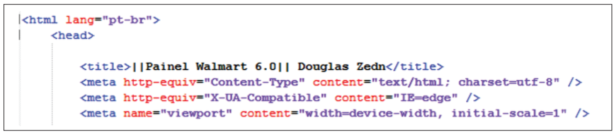
Copyright © 2016

Figure 8: *The error 404 page found in the phishing kit.*

This unique landing page was created by a web designer who is likely unaware that his work is being used for malicious purposes. While we did not notice any legitimate websites using this 404 page, and discovered that 'Blue World Electronicos' does not actually exist, we did notice an English version of this page being used online. In fact, we found a few domains, serving PayPal phishing scams, using the English version of this page.

From this landing page we managed to find the actual phishing kit along with its admin panel. This led us to the next clue in discovering [A]pache's possible identity.

Looking into the kit's code, we discovered that [A]pache had included his handle, 'Douglas Zedn', in the control panel of the Walmart phishing site. This was either a mistake or he was looking for some kind of recognition for his work.



```
<html lang="pt-br">
    <head>

        <title>||Painel Walmart 6.0|| Douglas Zedn</title>
        <meta http-equiv="Content-Type" content="text/html; charset=utf-8" />
        <meta http-equiv="X-UA-Compatible" content="IE=edge" />
        <meta name="viewport" content="width=device-width, initial-scale=1" />
```

Figure 9: *The The phishing kit's source code revealing [A]pache's handle.*

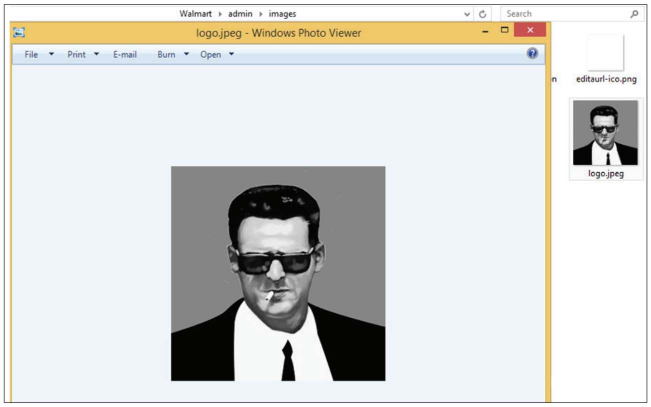
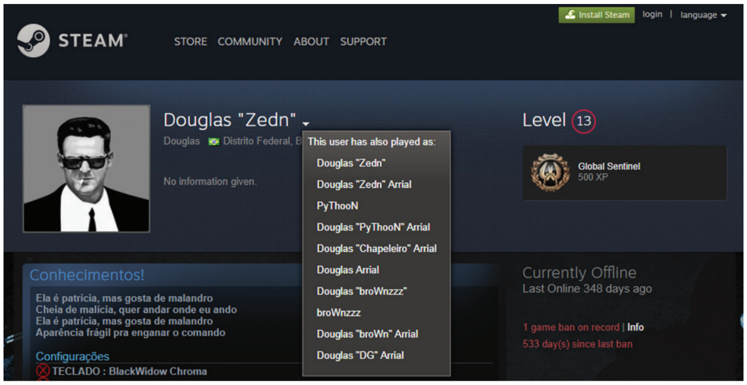


Figure 10: *[A]pache's avatar as seen in his phishing kit's resources.*

'Douglas' had also included a profile image in the resource kit too.

When carrying out a basic online search, as seen on his Steam social media profile page, we then discovered that 'Douglas' uses the same identity for his business life as he does for his personal life.



Douglas "Zedn"

Douglas Distrito Federal, B

No information given.

This user has also played as:

Douglas "Zedn"
Douglas "Zedn" Arrial
PyThooN
Douglas "PyThooN" Arrial
Douglas "Chapeleiro" Arrial
Douglas Arrial
Douglas "broWnzzz"
broWnzzz
Douglas "broWn" Arrial
Douglas "DG" Arrial

Level 13

Global Sentinel
500 XP

Conhecimentos!

Ela é patrícia, mas gosta de malandro
Cheia de malícia, quer andar onde eu ando
Ela é patrícia, mas gosta de malandro
Aparência frágil pra enganar o comando

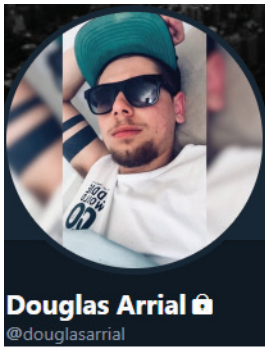
Configurações

TECLADO : BlackWidow Chroma

Currently Offline
Last Online 348 days ago

1 game ban on record | Info
533 day(s) since last ban

Figure 11: *[A]pache's Steam social media profile.*



Douglas Arrial
@douglasarrial

Figure 12:
The real {A}pache...?

With one more step we were able to trace 'Douglas Zedn' back to his Twitter handle. Could this be the real person behind the avatars?

Conclusion

Phishing attacks are one of the main methods used by threat actors to gain access to online retailers' data as well as a key way to directly target the customers who shop with them. The [A]pache phishing kit illustrates, however, the evolution that phishing kits are now undergoing in the fifth generation of the cyber threat landscape.

Protection against phishing is paramount for all organizations. To prevent malware coming into a network, organizations and consumers alike need 'Gen V' technologies to keep retail imposters at bay.

CyberInt Argos

CyberInt's Argos™ threat intelligence platform and Managed Detection and Response services allows their customers to combat and respond to advanced cyber threats that would normally go unnoticed by standard security controls, while protecting their brand, digital assets and customers. Learn more about CyberInt Argos.

Check Point SandBlast Agent

Check Point SandBlast Agent provides purpose-built advanced Zero-Day Protection capabilities to web browsers and endpoints. Using Zero Phishing technology, SandBlast Agent proactively blocks access to new and unknown deceptive websites, as well as safeguards user credentials by preventing the use of corporate passwords on external websites. Learn more about SandBlast Agent.

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