Grupo de Resposta a Incidentes de Segurança

Segurança em WebMessengers

Por:
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Grupo de Resposta a Incidentes de Segurança Departamento de Ciência da Computação Instituto de Matemática Universidade Federal do Rio de Janeiro



Introdução

- O que são WebMessengers?
 - São mensageiros que funcionam sem depender de instalação local. Geralmente se aproveitão de tecnologias como o AJAX e JavaScript para sua execução



Introdução

- Por que usar webmessengers?
 - Não precisa instalar
 - Só precisa do navegador
 - Independe do SO
 - Acessível em qualquer lugar
 - Seguro



Introdução

- Por que usar webmessengers?
 - Não precisa instalar
 - Só precisa do navegador
 - Independe do SO
 - Acessível em qualquer lugar
 - Seguro ???



Análise

WebMessenger escolhidos:

- Meebo

meebo
instant messaging everywhere

Ebuddy



Web and mobile messaging, for everyone everywhere

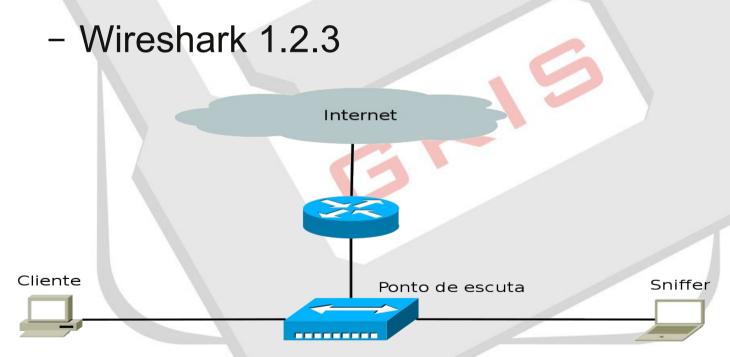
Windows Live
 Messenger Web





Ambiente dos Experimentos

- Cliente:
 - Mozilla Firefox 3.5 e Opera 10.00
- Sniffer:



O Meebo

- URL principal: http://www.meebo.com
- Segundo a documentação, o login e a senha do usuário são criptografados e depois enviados ao servidor.
- Possui versão totalmente criptografada https://www.meebo.com







instant messaging everywhere



| login password forgot password? | google talk login password forgot password? | | |
|-------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|--|--|
| Iogin password? | login password? | | |
| By clicking Sign On, you agree to our terms of service and privacy policy sign on as invisible facebook aim icq jabber myyearbook Sign On | | | |

| English | ▼ help translat |
|---------|-----------------|
|---------|-----------------|

advertisers developers rooms for sites meebo community im jobs terms of use privacy policy



instant messaging everywhere

| | on to meebo meebo id | login password forgot password? | login password forgot password? |
|----------------------------------|-----------------------|---------------------------------|---------------------------------|
| Or One login to IM from an | | meebo community im | password? |
| | E | nglish ▼ help translate! | |

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meebo

rooms

about us

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history

jobs

contact

ads

press

meebo account security

password encryption and website security

What do we do?

At Meebo, we take security very seriously. We never send your login credentials in the clear and ensure that whenever we do send that data across the internet, it's always encrypted.

We achieve this security standard in two ways.

If your browser supports SSL, some IFrame magic occurs! When you first load up the Meebo homepage (http://www.meebo.com), the content served to your browser is insecure, which is okay.:) What we've done is embed another mini-webpage with an empty form in a hidden IFrame on the page. When you enter your name(s) and password(s), the hidden IFrame fills out that information into its form fields and submits it to an SSL-version of Meebo (https://www.meebo.com). Because the submission occurs over HTTPS, all the data is encrypted and protected. Success or failure is messaged back to your browser, and if you've entered your credentials correctly, the event loop is initiated and your Meebo session begins.

If your browser does not support SSL, we fall back to our original method of encrypting your login information. The public key of our server is embedded in the JavaScript that gets loaded by your Web browser. When you type in your login credentials and hit the "Sign On" button, the passwords are encrypted in the JavaScript using the RSA key and sent across the wire. Upon reaching the server, the CGI scripts use the corresponding private key stored only on the server to decrypt the password using OpenSSL. This way, your password is never sent across in the clear.

Meebo privacy

The philosophy behind our privacy policy

Meebo security

Security measures we have implemented

Meebo Me privacy

Privacy information specific to Meebo Me

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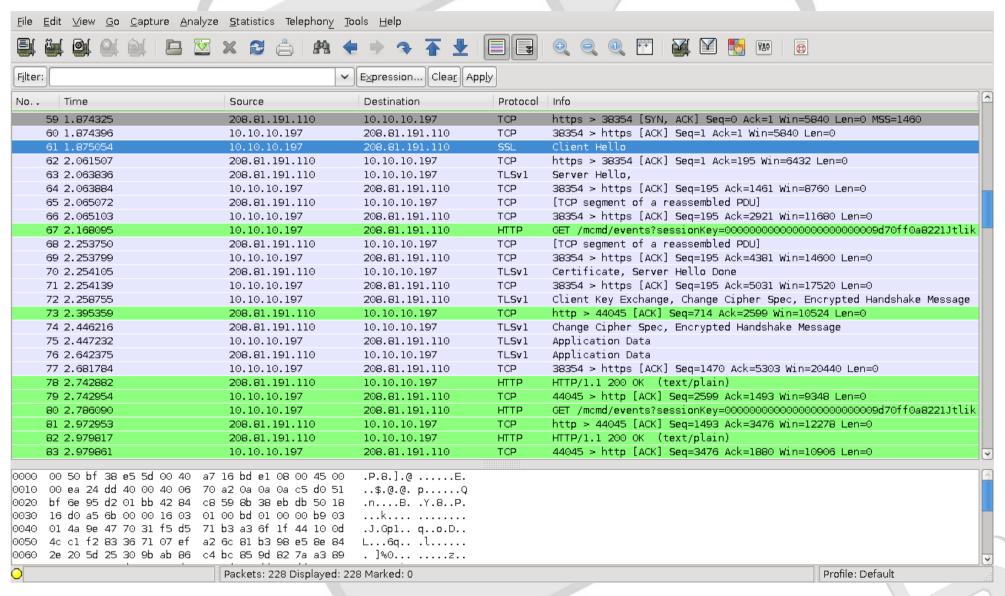
We achieve t

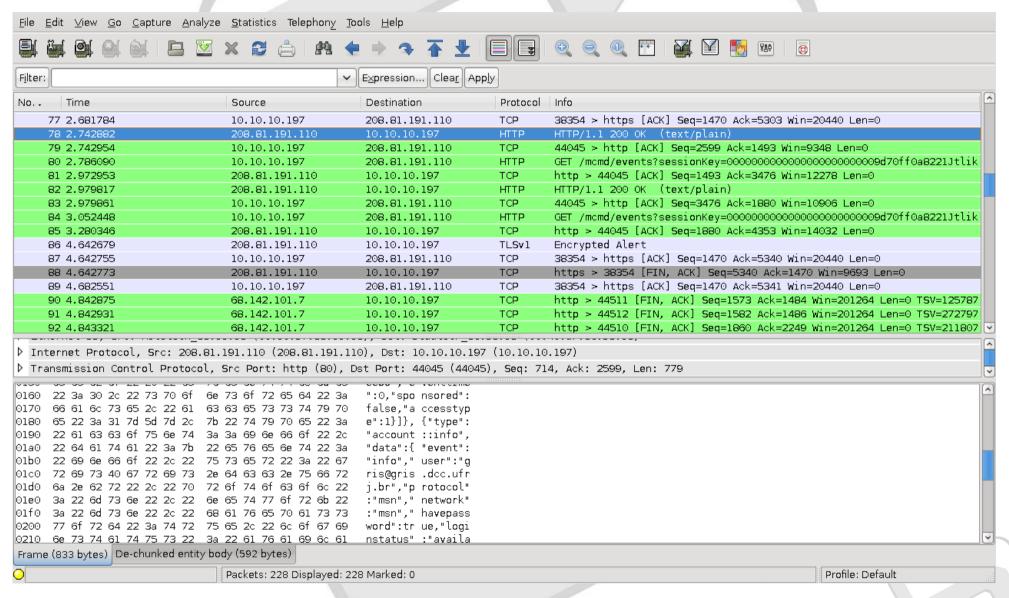
If your brows
Meebo home,
insecure, whi
empty form ir
password(s),
submits it to
submission o

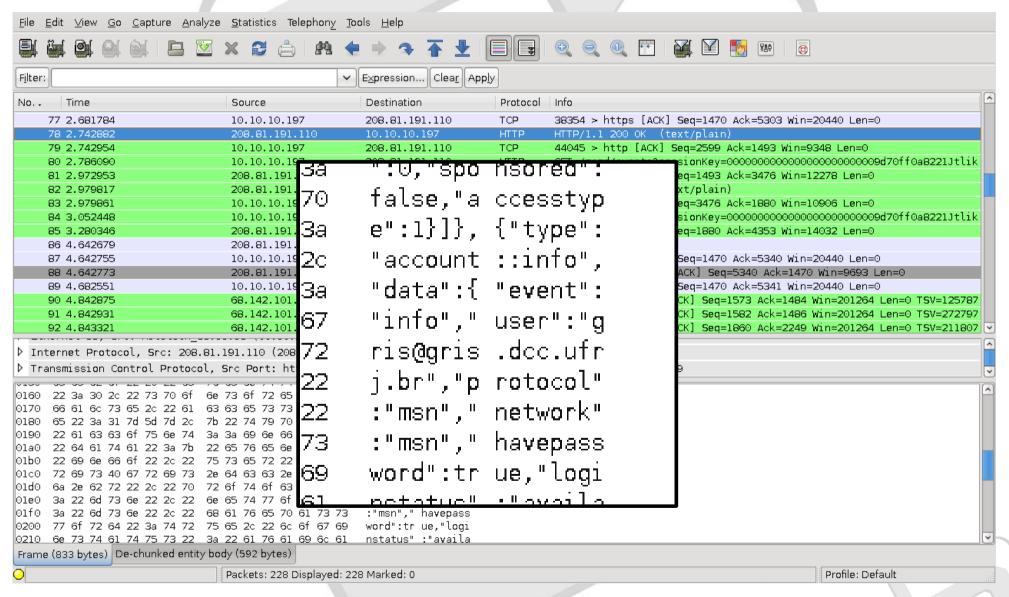
"No Meebo, nós levamos a segurança muito a sério. Nós nunca enviamos suas credenciais de login em texto puro e garantimos que sempre que nos envie os dados através da internet, sempre será codificado."

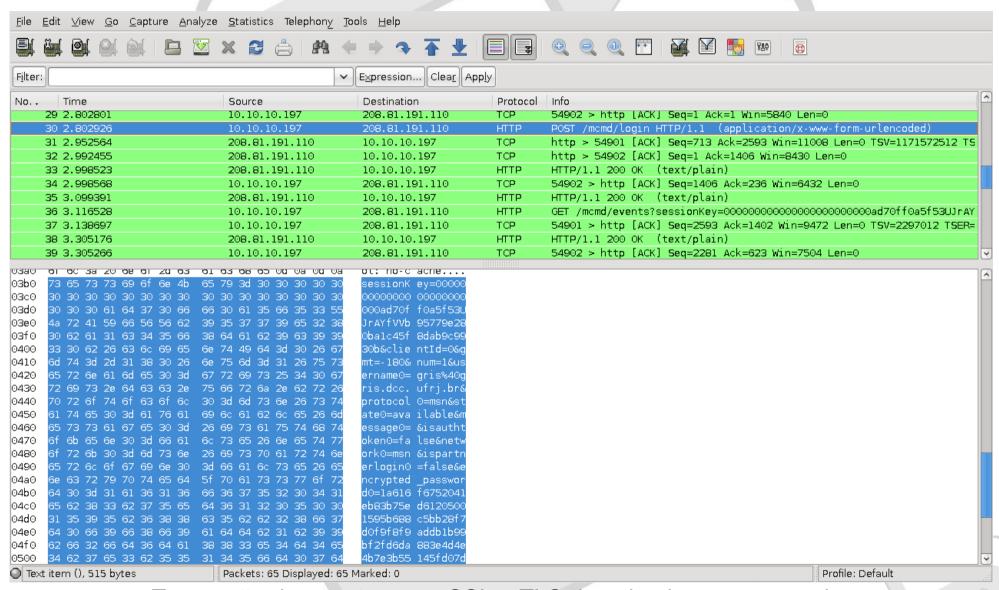
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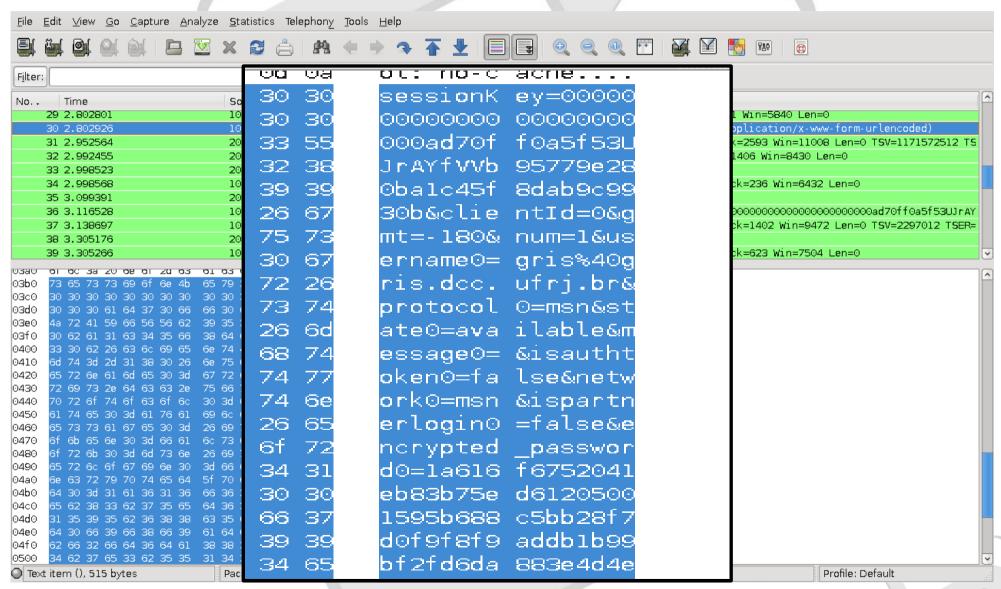






Transação de pacotes com SSL e TLS desativados no navegador Utiliza uma implementação de RSA em JavaScript





Transação de pacotes com SSL e TLS desativados no navegador Utiliza uma implementação de RSA em JavaScript



JavaScript

```
// Copyright 2005-2009 Meebo, inc.
  11
 // RSA javascript implementation Copyright 1998-2005 David Shapiro
  // please see http://www.ohdave.com/rsa/
  // SHA256 javascript implementation Copyright 2003-2004 Angel Marin
  // please see http://anmar.eu.org/
  // dom offset javascript implementation Copyright 2009 John Resig
 // please see http://docs.jquery.com/Source_Code
 11
  // interested in joining meebo? we have positions for back-end software engineer, front-end software engineer, and visual designer
 // email your resume and cover letter to secretjobs at meebo dot com!
  var lib={}:
 function Class(b,e,d){var a=(d?Class.extend(e,d):Class.create(e));
if(b){var c=b.lastIndexOf(","):
 Class.getObject(b.slice(0,Math.max(c,0)))[b.slice(c+1)]=a
 }return a
}function Singleton(b,a){return new (Class(null,b,a))()
🔻 }Class.create=function(a){function b(){if(typeof this.initialize=="f<mark>unction</mark>"){return this.initialize.apply(this,arguments)

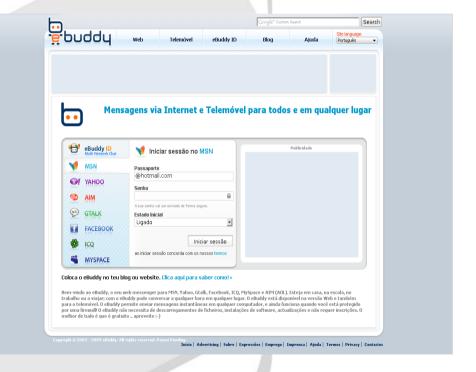
// }}b.prototype=new a(function(e,f,d){var c=a;
▼ if(!d){d=[]
| while(c=c.prototype){if(c[f]){return c[f].apply(e,d)
 |}}throw new Error("method does not exist")
 3):
 b.prototype.constructor=b;
  return h
Class.extend=function(a,b){b.prototype=a,prototype;
  return Class.create(b)
 3:
Class.getObject=function(pkg){var parts=pkg.split(".");
♥ if(typeof window=="undefined"){var object=eval(parts[0]+" = typeof "+parts[0]+' == "undefined" ? {} : '+parts[0]+";");
  parts.shift()
▼ }else{var object=window
}while(parts.length){var part=parts.shift();
v if(!part){continue
// }if(!object[part]){object[part]={}
 }object=object[part]
 }return object
 3;
```

 Segundo a documentação do Meebo, toda tranferencia de dados (login e senha) são criptografadas. Na realidade não é bem assim, já que através da página padrão, é possível obter o login em TEXTO PURO.

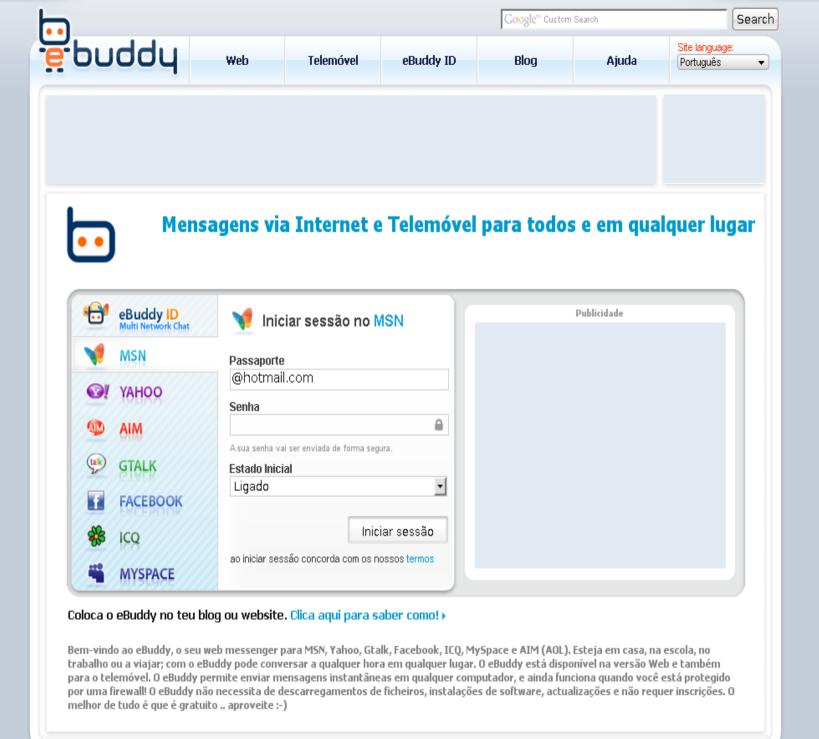


O eBuddy

- URL principal: http://www.ebuddy.com
- Não possui documentação acerca de criptografia
- Política de privacidade assegura que as informações são transmitidas de forma segura







Web

Telemóvel

eBuddy ID

Blog

Google™ Custom Search

Ajuda

Site language: Português ▼

Search



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EBUDDY PRIVACY STATEMENT

eBuddy takes your privacy seriously and will process and use information about you in a secure manner. Therefore eBuddy has established and implemented this Privacy Statement in which we describe what information we collect about you and how we use it. We therefore recommend that you read this Privacy Statement carefully.

AFTER READING THIS PRIVACY STATEMENT YOU WILL HAVE LEARNED THAT:

- We use your personal information to offer you the eBuddy service and to keep you informed about any news regarding eBuddy;
- · We use your personal information to enhance and make your use of eBuddy easier;
- We use non-personal information such as your age and gender to serve you relevant advertisements;
- We will not share personal information about you with third parties without your prior consent
- We take security measures to safeguard your personal information.

1. WHAT IS EBUDDY?

eBuddy is an online web based messenger that allows you to chat online anytime and everywhere. eBuddy's mobile products allows you to chat anytime, everywhere on your mobile phone; additional charges may apply depending on product version and operator subscriptions. eBuddy is established at Keizersgracht 585 in (1017 DR) Amsterdam and is listed at the Chamber of Commerce under number 34211186. The manner in which your personal details are saved and used has been reported to the Dutch Data Protection Authority.

2. WHAT INFORMATION IS COLLECTED AND PROCESSED BY EBUDDY?

LISE WITHOUT ERUDDY ID.

Web

Telemóvel

eBuddy ID

Blog

Google™ Custom Search

Ajuda

Site language: Português ▼

Search



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AFTER READING THIS PRIVACY STATEMENT YOU WILL HAVE LEARNED THAT:

"Nós tomamos as medidas de segurança para proteger suas informações pessoais. "

ou informed

er; vant

r prior

consent

We take security measures to safeguard your personal information.

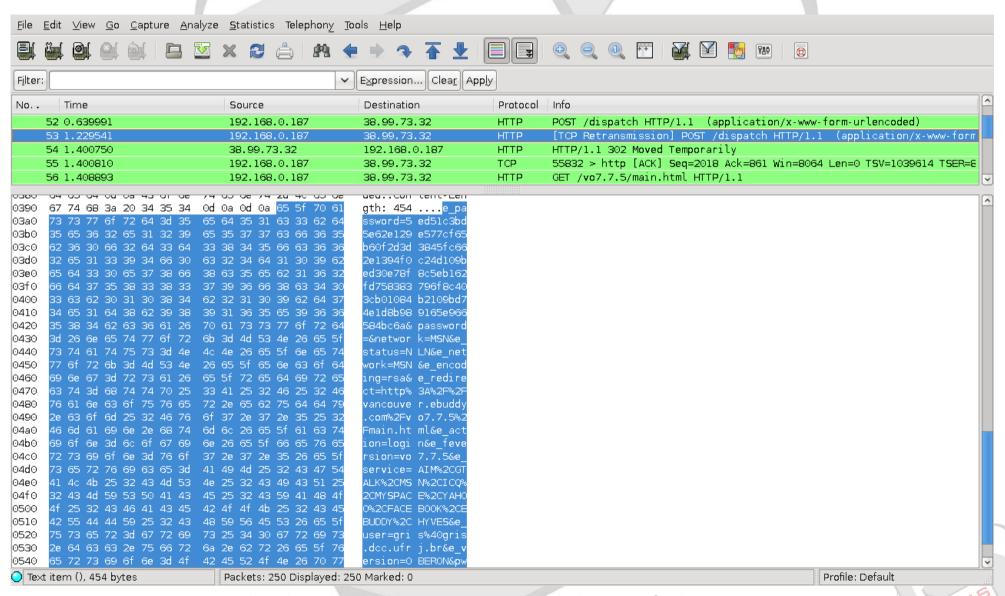
1. WHAT IS EBUDDY?

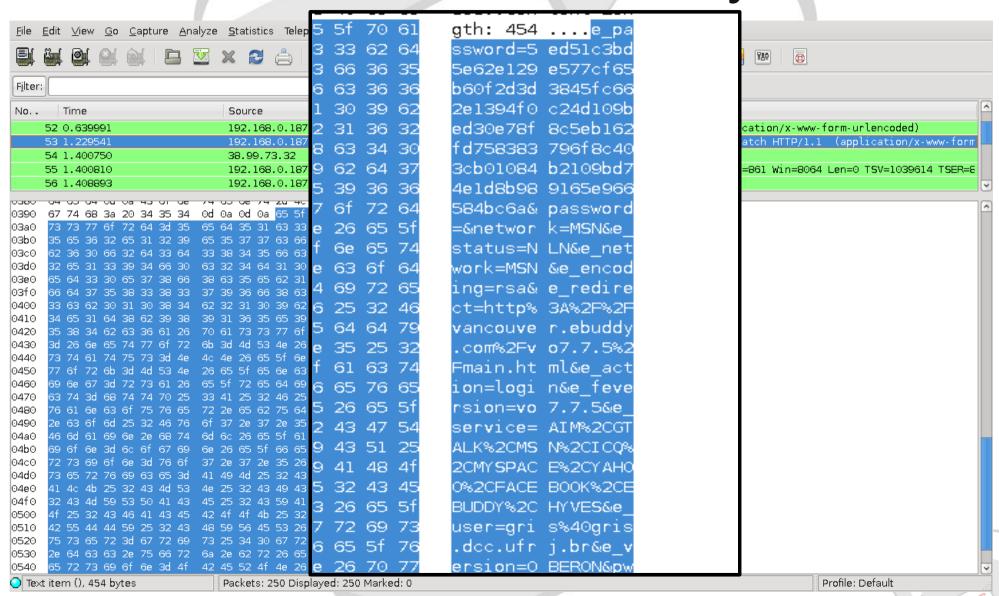
eBuddy is an online web based messenger that allows you to chat online anytime and everywhere. eBuddy's mobile products allows you to chat anytime, everywhere on your mobile phone; additional charges may apply depending on product version and operator subscriptions. eBuddy is established at Keizersgracht 585 in (1017 DR) Amsterdam and is listed at the Chamber of Commerce under number 34211186. The manner in which your personal details are saved and used has been reported to the Dutch Data Protection Authority.

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| <u>F</u> ile <u>E</u> d | lit <u>V</u> iew <u>Go C</u> apture <u>A</u> nalyze | e <u>S</u> tatistics Telephon <u>y</u> <u>T</u> od | ols <u>H</u> elp | | | |
|-------------------------|-----------------------------------------------------|----------------------------------------------------|------------------------------------------------|----------|-----------------------------------------------|-----------------------------|
| | | × 2 🚔 19 💠 | → → ★ ± | | | |
| F <u>i</u> lter: | | ~ | E <u>×</u> pression Clea <u>r</u> App <u>l</u> | y | | |
| No | Time | Source | Destination | Protocol | Info | |
| | 1.00-000 | 102.100.0.107 | 30.33.73.32 | 101 | SSSSS x rectp (STN) SCG-0 HITH-SOHO ECH-0 HOS | -1400 131-1033030 1321-0 11 |
| | 5 1.820984 | 38.99.73.32 | 192.168.0.187 | HTTP | HTTP/1.1 200 OK (text/html) | |
| | 5 1.860548 | 192.168.0.187 | 38.99.73.32 | TCP | 55832 > http [ACK] Seq=2814 Ack=3805 Win=13 | |
| | 7 1.870587 | 38.99.73.32 | 192.168.0.187 | TCP | http > 55834 [SYN, ACK] Seq=0 Ack=1 Win=579 | |
| | 3 1.870656 | 192.168.0.187 | 38.99.73.32 | TCP | 55834 > http [ACK] Seq=1 Ack=1 Win=5888 Len | =0 TSV=1040084 TSER=879998 |
| 69 | 9 1.870774 | 192.168.0.187 | 38.99.73.32 | HTTP | GET /vo7.7.5/startup_settings.jsp HTTP/1.1 | |
| 70 | 0 1.874751 | 38.99.73.32 | 192.168.0.187 | TCP | http > 55835 [SYN, ACK] Seq=0 Ack=1 Win=579 | |
| 7: | 1 1.874813 | 192.168.0.187 | 38.99.73.32 | TCP | 55835 > http [ACK] Seq=1 Ack=1 Win=5888 Len | =0 TSV=1040088 TSER=879998 |
| 72 | 2 1.874883 | 192.168.0.187 | 38.99.73.32 | HTTP | GET /banners/tabs.jsp HTTP/1.1 | |
| 73 | 3 1.920819 | 83.150.67.33 | 192.168.0.187 | TCP | http > 35449 [SYN, ACK] Seq=0 Ack=1 Win=438 | |
| 74 | 4 1.920879 | 192.168.0.187 | 83.150.67.33 | TCP | 35449 > http [ACK] Seq=1 Ack=1 Win=5888 Len | |
| 75 | 5 1.921032 | 192.168.0.187 | 83.150.67.33 | HTTP | GET /0.4/query?id=781cbbe86ab87697c70dfdcc5 | b82cb518cbd06a6&nonce=6af5 |
| 76 | 6 2.060325 | 38.99.73.32 | 192.168.0.187 | TCP | http > 55834 [ACK] Seq=1 Ack=771 Win=7424 L | en=0 TSV=879998739 TSER=10 |
| 77 | 7 2.062671 | 38.99.73.32 | 192.168.0.187 | TCP | [TCP segment of a reassembled PDU] | |
| 78 | 3 2.062721 | 192.168.0.187 | 38.99.73.32 | TCP | 55834 > http [ACK] Seq=771 Ack=1449 Win=883 | 2 Len=0 TSV=1040276 TSER=8 |
| 79 | 9 2.063921 | 38.99.73.32 | 192.168.0.187 | TCP | [TCP segment of a reassembled PDU] | |
| 80 | 2.063976 | 192.168.0.187 | 38.99.73.32 | TCP | 55834 > http [ACK] Seq=771 Ack=2897 Win=116 | 48 Len=0 TSV=1040277 TSER= |
| 81 | 1 2.065274 | 38.99.73.32 | 192.168.0.187 | TCP | [TCP segment of a reassembled PDU] | |
| 82 | 2 2.065327 | 192.168.0.187 | 38.99.73.32 | TCP | 55834 > http [ACK] Seq=771 Ack=4345 Win=145 | 92 Len=0 TSV=1040279 TSER= |
| 83 | 3 2.065338 | 38.99.73.32 | 192.168.0.187 | TCP | http > 55835 [ACK] Seg=1 Ack=759 Win=7424 L | en=0 TSV=879998740 TSER=10 |
| 84 | 4 2.066787 | 38.99.73.32 | 192.168.0.187 | HTTP | HTTP/1.1 200 OK (text/html) | |
| 85 | 5 2.066833 | 192.168.0.187 | 38.99.73.32 | TCP | 55835 > http [ACK] Seq=759 Ack=1139 Win=819 | 2 Len=0 TSV=1040280 TSER=8 |
| 86 | 5 2.201928 | 83.150.67.33 | 192.168.0.187 | HTTP/XML | . HTTP/1.1 200 OK | |
| 87 | 7 2.201995 | 192.168.0.187 | 83.150.67.33 | TCP | 35449 > http [ACK] Seg=610 Ack=870 Win=7680 | Len=0 TSV=1040415 TSER=32 |
| 88 | 3 2.202001 | 83.150.67.33 | 192.168.0.187 | TCP | http > 35449 [FIN, ACK] Seq=870 Ack=610 Win | |
| 89 | 9 2.202208 | 192.168.0.187 | 83.150.67.33 | TCP | 35449 > http [FIN, ACK] Seq=610 Ack=871 Win | |
| 90 | 0 2.254662 | 38.99.73.32 | 192.168.0.187 | нттр | HTTP/1.1 200 OK (application/x-javascript) | |
| 91 | 1 2.254715 | 192.168.0.187 | 38.99.73.32 | TCP | 55834 > http [ACK] Seq=771 Ack=5731 Win=175 | |
| | 2 2.274870 | 192.168.0.187 | 38.99.73.32 | HTTP | GET /vo7.7.5/startup.js HTTP/1.1 | |
| | 3 2,490662 | 83.150.67.33 | 192.168.0.187 | TCP | http > 35449 [ACK] Seg=871 Ack=611 Win=4989 | Len=0 TSV=3233939272 TSEF |
| | 4 2.513049 | 38.99.73.32 | 192.168.0.187 | TCP | http > 55832 [ACK] Seg=3805 Ack=3574 Win=15 | |
| | 5 2.759810 | 38.99.73.32 | 192.168.0.187 | TCP | [TCP segment of a reassembled PDU] | |
| | 5 2.759857 | 192.168.0.187 | 38.99.73.32 | TCP | 55832 > http [ACK] Seq=3574 Ack=5253 Win=16 | 768 Len=0 TSV=1040973 TSEF |
| Text it | em (), 454 bytes | Packets: 250 Displayed: 250 | 0 Marked: 0 | | | Profile: Default |
| | | | | | | |



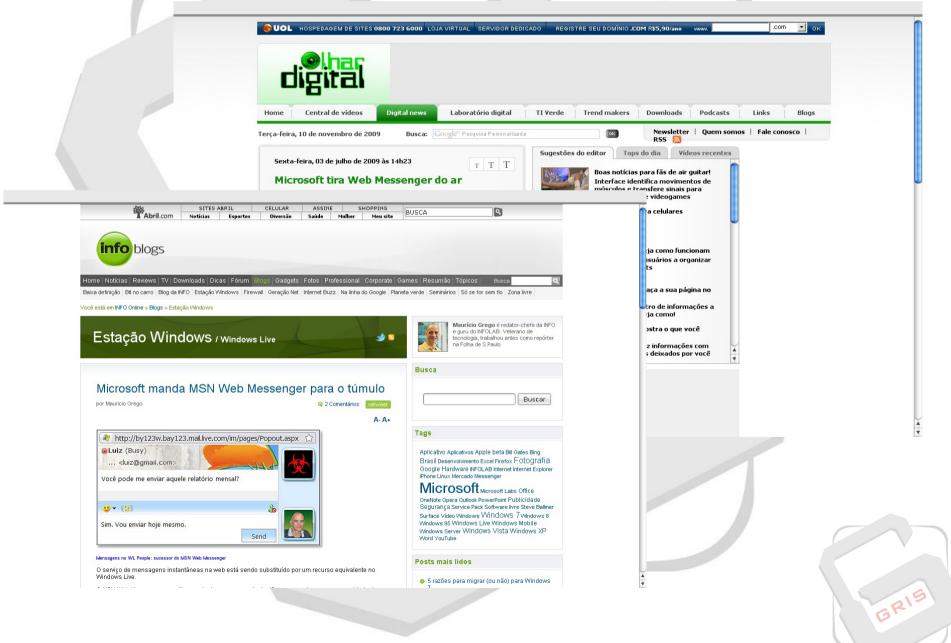


 A política de privacidade diz que transmite os dados (login e senha) de forma segura. Na realidade, o login e senha não são transportados de forma segura, para isso é recomendável utilizar SSL.











O Windows Live Messenger na Web foi movido!

O foco do Messenger são as pessoas - por isso, a versão para a Web agora é embutida no Hotmail e no resto do Windows Live. Vá para http://people.live.com e veja quem está online.

Você também pode ver se seus amigos estão online vendo rapidamente a sua caixa de entrada. Você também pode transformar emails em conversas por Mensagens Instantâneas.

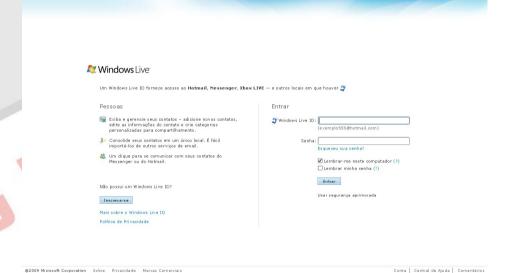
Para entrar no Messenger na Web, vá para o Hotmail ou para http://people.live.com e procure por Messenger na barra de ações.

Comece agora

Obrigado por usar o Messenger na Web. Talvez você também goste do versão para desktop do Messenger mais recente.



- URL principal: http://people.live.com
- Possui uma detalhada política de privacidade.
- Só é compatível com um protocolo
- Possui integração com e-mail







Um Windows Live ID fornece acesso ao Hotmail, Messenger, Xbox LIVE — e outros locais em que houver 🗊

Pessoas

- Exiba e gerencie seus contatos adicione novos contatos, edite as informações do contato e crie categorias personalizadas para compartilhamento.
- Consolide seus contatos em um único local. É fácil importá-los de outros serviços de email.
- Um clique para se comunicar com seus contatos do Messenger ou do Hotmail.

Não possui um Windows Live ID?

Inscreva-se

Mais sobre o Windows Live ID

Política de Privacidade

Entrar

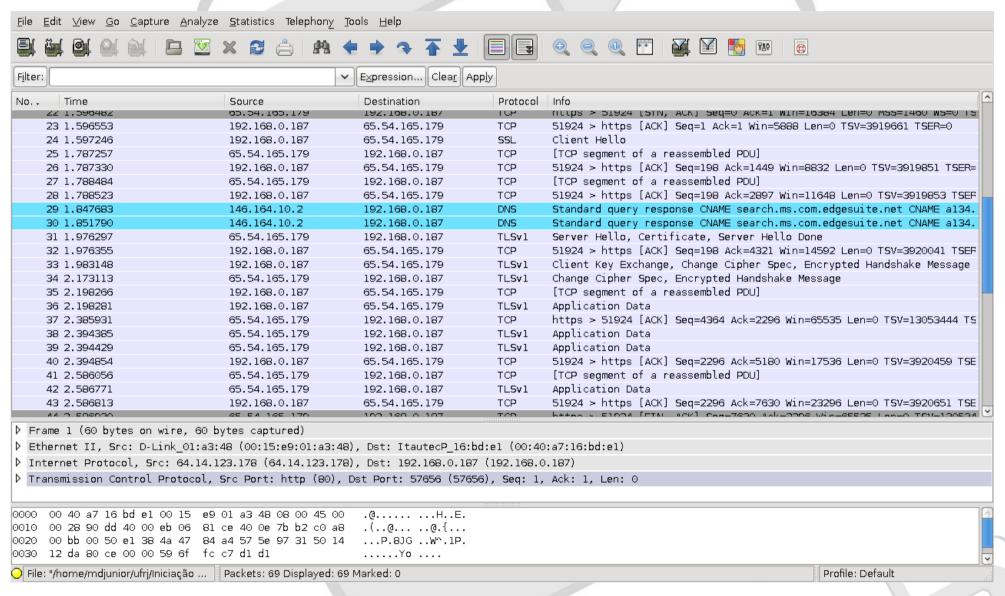
| Windows Live ID: | (exemplo555@hotmail.com) |
|------------------|-----------------------------------|
| Senha: | |
| | Esqueceu sua senha? |
| | ☑ Lembrar-me neste computador (?) |
| | Lembrar minha senha (?) |
| | Entrar |
| | Usar segurança aprimorada |

©2009 Microsoft Corporation Sobre Privacidade Marcas Comerciais Conta Contral de Ajuda Comentários

Testando o WLM Web

| e <u>E</u> dit <u>V</u> iew <u>G</u> o <u>C</u> apture | <u>A</u> nalyze <u>S</u> tatistics Telephon <u>y</u> | <u>T</u> ools <u>H</u> elp | | |
|----------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------|----------------------------|---------------|----------------------------------------------------------------------|
| | | ♠ ⇒ → ★ ± | | |
| ter: | | ✓ Expression Clear | Apply | |
| o Time | Source | Destination | Protocol | Info |
| 51 3.911791 | 192.168.0.187 | 65.54.186.17 | TCP | [TCP segment of a reassembled PDU] |
| 52 3.911815 | 192.168.0.187 | 65.54.186.17 | TLSv1 | Application Data |
| 53 3.929070 | 199.7.58.72 | 192.168.0.187 | TCP | http > 49294 [ACK] Seq=1813 Ack=581 Win=7040 Len=0 TSV=3555075801 TS |
| 54 4.123875 | 65.54.186.17 | 192.168.0.187 | TCP | https > 36952 [ACK] Seq=4364 Ack=1844 Win=65535 Len=0 TSV=12924616 T |
| 55 4.139573 | 65.54.186.17 | 192.168.0.187 | TLSv1 | Application Data |
| 56 4.139623 | 65.54.186.17 | 192.168.0.187 | TLSv1 | Application Data |
| 57 4.140026 | 192.168.0.187 | 65.54.186.17 | TCP | 36952 > https [ACK] Seq=1844 Ack=5063 Win=17536 Len=0 TSV=3774341 TS |
| 58 4.327628 | 65.54.186.17 | 192.168.0.187 | TCP | [TCP segment of a reassembled PDU] |
| 59 4.328339 | 65.54.186.17 | 192.168.0.187 | TLSv1 | Application Data |
| 60 4.328384 | 192.168.0.187 | 65.54.186.17 | TCP | 36952 > https [ACK] Seq=1844 Ack=7524 Win=23296 Len=0 TSV=3774530 TS |
| 61 4.328397 | 65.54.186.17 | 192.168.0.187 | TCP | https > 36952 [FIN, ACK] Seq=7524 Ack=1844 Win=65535 Len=0 TSV=12924 |
| 62 4.328813 | 192.168.0.187 | 65.54.186.17 | TLSv1 | Encrypted Alert |
| 63 4.328849 | 192.168.0.187 | 65.54.186.17 | TCP | 36952 > https [FIN, ACK] Seq=1867 Ack=7525 Win=23296 Len=0 TSV=37745 |
| 64 4.340691 | 192.168.0.187 | 65.54.186.17 | TCP | 36955 > https [SYN] Seq=0 Win=5840 Len=0 MSS=1460 TSV=3774542 TSER=0 |
| 65 4.344410 | 192.168.0.187 | 65.54.186.17 | TCP | 36956 > https [SYN] Seq=0 Win=5840 Len=0 MSS=1460 TSV=3774546 TSER=0 |
| 66 4.516969 | 65.54.186.17 | 192.168.0.187 | TCP | https > 36952 [ACK] Seq=7525 Ack=1868 Win=65512 Len=0 TSV=12924619 T |
| 67 4.528447 | 65.54.186.17 | 192.168.0.187 | TCP | https > 36955 [SYN, ACK] Seq=0 Ack=1 Win=16384 Len=0 MSS=1460 WS=0 T |
| 68 4.528523 | 192.168.0.187 | 65.54.186.17 | TCP | 36955 > https [ACK] Seq=1 Ack=1 Win=5888 Len=0 TSV=3774730 TSER=0 |
| 69 4.530471 | 192.168.0.187 | 65.54.186.17 | SSL | Client Hello |
| 70 4.543530 | 65.54.186.17 | 192.168.0.187 | TCP | https > 36956 [SYN, ACK] Seq=0 Ack=1 Win=16384 Len=0 MSS=1460 WS=0 T |
| 71 4.543590 | 192.168.0.187 | 65.54.186.17 | TCP | 36956 > https [ACK] Seq=1 Ack=1 Win=5888 Len=0 TSV=3774745 TSER=0 |
| 72 4.543991 | 192.168.0.187 | 65.54.186.17 | SSL | Client Hello |
| Frame 52 (114 bytes on | wire, 114 bytes captured) | | | |
| Ethernet II, Src: Itaut | ecP_16:bd:e1 (00:40:a7:16:b | d:el), Dst: D-Link_01: | :a3:48 (00:15 | 6:e9:01:a3:48) |
| Internet Protocol, Src: | 192.168.0.187 (192.168.0.1 | 87), Dst: 65.54.186.17 | 7 (65.54.186. | 17) |
| · | rotocol, Src Port: 36952 (36 | · | | |
| | nts (1496 bytes): #51(1448), | | (| ,, |
| 00 00 15 20 01 23 42 00 | 0.40 a7.16.hd a1.09.00.45.0 | 00 H 0 E | | |
| 0000 00 15 e9 01 a3 48 00 40 a7 16 bd e1 08 00 45 00 H.@E. 0010 00 64 5b 91 40 00 40 06 22 58 c0 a8 00 bb 41 36 .d[.@.@. "XA6 | | | | |
| 0010 00 04 3D 91 40 00 40 00 22 36 00 0D 41 30 .U[.W. XXO | | | | |
| Frame (114 bytes) Reassembled TCP (1496 bytes) | | | | |
| File: "/home/mdjunior/ufrj/Inici | iação Packets: 303 Displayed | : 303 Marked: 0 | | Profile: Default |
| • | | | | - 83 |

Testando o WLM Web



Utilizando forma opcional de acesso (Segurança Aprimorada), não recomendada por ser mais lenta



Testando o WLM Web

 A política de privacidade diz que transmite os dados (login e senha) de forma segura.

 E assim ele faz, em todas as opções de segurança.



Conclusões

- Meebo
 - SSL e TLS em modo seguro (ineficiente)
 - JavaScript em modo padrão (ineficiente)
- Ebuddy
 - JavaScript em modo padrão (ineficiente)
 - Não há modo de segurança avançada
- WLM Web
 - HTTPS em modo seguro (eficiente)
 - SSL e TLS em modo padrão (eficiente)





Referências

- Meebo
 - http://www.meebo.com/security/
 - http://www.meebo.com/privacy/full/
- Ebuddy
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 - http://privacy.microsoft.com/pt-br/default.mspx
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 - http://js.meebo.com/script/meebo_v82.js
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