

SVS Bachelor-Projekt Network Security

Blatt 4: Sniffing und Scanning

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1 Vertrautmachen mit der Umgebung

1.2

SurfingVM hatte keine Internetverbindung; Reparatur mithilfe des Zurücksetzens der Datei `/etc/udev/rules.d/70-persistent-net.rules` und Reboot beider VMs (wie nach Aufgabeninfo).

- **Standartgateway: 192.168.254.1**
- IP: 192.168.254.44
- **DNS-Nameserver: 10.1.1.1** (ermittelt mit `route -n`, bestätigt mit `nslookup ubuntu.com`)

1.3

- Netzwerkkarte 1: eth0, 172.16.137.222
- Netzwerkkarte 2: eth1, 192.168.254.1
- VMWare-Standart-Gateway: 172.16.137.2

1.4

- Ping an 10.1.1.2 aus beiden VMs erfolgreich (0% Package loss)

2 Sniffing mit tcpdump

2.1

- `tcpdump` listet alle Pakete auf, die über die Netzwerkkarte laufen
- Capture-Filter zum Filtern und Sortieren der gefangenen Packages

2.2

- Kommando: `sudo tcpdump -p -i eth1 -s 0 -vvv udp port 53 > log1 ([1], [2])`

Anmerkung: Output-Prokottle vgl. Anhang: Sniffing (S. 8)

Anmerkung: `tcpdump` kennt nur wenige Protokolle und gibt, wenn er ein Protokoll nicht erkennt, IP an.

Bezüglich der Antwort: Die erste Zeile ist jeweils Meta-Information. Die zweite Zeile ist eine Anfrage unserer Domain an unseren Nameserver, welcher dann an Google weiterfragt, wo die Nameserver von Google die Anfrage durch reichen.

¹-p: weil Aufgabe. -i ethX: Adapter, der gelistened werden woll. -s 0: Größe des Capture in Bytes (0=alle). -vvv: alle Paketinformationen ausgeben. «schnittstelle» port «port». > log: in die Datei 'log' echoen, die ggf. im \$(pwd) angelegt wird.

2.3

- Kommando: `sudo tcpdump -p -i eth1 -s 0 -vvv '(tcp port 80) or (tcp port 443)' > log2 ([1])`

Output: vgl. Output des HTTPS-Sniffing (S. 8)

2.4

Neuer Befehl: `sudo tcpdump -p -i eth1 -s 0 -vvv -A 'tcp port 80'` Output vgl. Anhang Output des HTTP-Sniffing (S. 8)

2.5

- Aufrufen der URL `http://10.1.1.2/verysecure/`
- Eingabe der Login-Daten `alice:sehrgeheim`
- Login-Daten im `Package Authorization: Basic YWxpY2U6c2V0cmdlaGVpbQ==` \Rightarrow Base-64-verschlüsselt.
- Entschlüsselung ergibt: `alice:sehrgeheim`

3 Sniffing mit dsniff und urlsnarf

3.1 urlsnarf

Befehl: `sudo urlsnarf -i eth1 > log`

Aufbau des Output: IP - Timestamp - Adresse - Protokoll - Browser - Systemdaten

Befehl greift alle HTTP-Pakete vom angegebenen Adapter ab und zeigt ihre Daten an.

3.2 dsniff

Befehl: `sudo dsniff -i eth1 > log`

Aufbau des Output: Timestamp - Senderadresse - Empfängeradresse - Adresse - Protokoll - Host - Paketinhalt (decoded)

Liest den Inhalt von HTTP-Paketen aus und decodiert (zumindest Base-64).

4 Sniffing mit Wireshark

4.1

Wireshark liefert eine graphische Darstellung der gesniffen Pakete in lesbarer Tabellenform und zeigt den Inhalt der Pakete an.

4.2

Display-Filter: Bestimmt, welche der aufgefangenen Pakete angezeigt werden. **Capture-Filter:** Bestimmt, welche Pakete aufgefangen werden.

4.4

- `eth1` liegt nahe, da dieses Interface das Gateway für die SurfingVM bereitstellt (Capture-Filter).
- Alternativ zur Interface-Wahl kann ein Display-Filter zur Steuerung des Outputs erstellt werden.

²s.o., tcp port 80 für HTTP, tcp port 443 für HTTPS

4.5

Es wird nur ein Ping gesendet. Der Server pingt zurück. Die Pings werden über ICMP³ übertragen.

Der Klient DARF die Daten so lange behalten, wie er will. Jedes Paket hat einen time-to-live-Eintrag; ist dieser überschritten, wird das Paket erneut angefordert.

Weil Linux den DNS nicht cached, erwarten wir die gleiche Antwort.

Wir bekommen die gleiche Antwort, was bedeutet, Linux cached den DNS nicht.

Der Browser sendet Pings über TCP und anschließend HTTP. Dies wechselt sich stetig ab.

Es würde erwartet, dass in beiden Fällen das Gleiche passiert

4.6

Erstellen des Filters durch Rechtsklick auf einen HTTP-Eintrag und Auswahl des Menüpunktes "Apply as filter".

4.7

Funktion liegt unter Menüreiter "Analyze".

Ausgabe eines HTTP-Response öffnet Popup, in welchem der Content des Package angezeigt wird. Es kann zwischen verschiedenen Darstellungen gewählt werden (Raw/ASCII, HexDump, C Arrays)

4.8

- Server starten auf RoutingVM
- Auf SurfingVM mit telnet auf Server einwählen
- Auf RoutingVM Wireshark starten
- Auf SurfingVM Dinge tun
- Auf der RoutingVM kann der gesamte Chat nun als TCP-Packages ausgelesen werden (u.a. auch die Login Daten)

4.9

- Aufrufen von `https://de-de.facebook.com`
- Verwendete Protokolle: TCP, TLSv1
- Es wurden nicht alle Pakete in Wireshark angezeigt (Nummerierung nicht durchgehend). Kein Filter eingestellt. Theorie: HTTPS wird verborgen.

5 ARP-Spoofing

5.1

Ablauf des ARP-Spoofings:

Der 'Angreifer' klemmt sich zwischen Remote Host und Remote Server und gibt sich in beide Richtungen als der jeweils andere Gesprächspartner aus. Er fängt Pakete aus beiden Richtungen ab, liest sie aus, und schickt sie unter dem Namen des ursprünglichen Absenders weiter. Funktionsweise von `arp spoof`:

- Abzufangender Adapter wird angegeben
- Entity, die gespoofed werden soll
- Domain, deren eingehender Datenstream mitgelesen werden soll

³Internet Control Message Protocol

5.2

Befehl: `sudo arpspoof 172.16.137.2`. Es wird eine lange Reihe identischer arp-Replys ausgegeben.

5.3

Es wurde der Wireshark-Adapter “any” ausgewählt.

5.4

Nach Setzen des Display-Filters auf ICMP wurde durch den Zeitintervall die IP-Adresse 172.16.137.146 ermittelt (vgl. Grafik 1: Anhang: Wireshark-Screenshot).

5.5

- Display-Filter `ip.addr==172.16.137.146 && pop`
- beliebigen Eintrag ausgewählt und per Rechtsklick “Follow TCP Stream”
- Nutzerdaten: USER `bumblebee`, PASS `Optimus Prime`
- hat eine ungelesene Mail von `root@labservervm`
- Alternativen: Einhalten von Verdecktheit und Verborgenheit (GSS Sicherheitsziele :P)

5.6

- Browser/Version: Mozilla/5.0
- URL: `http://10.1.1.2/secure/secret.html`
- Login-Daten: Base-64 encoded im Kopf des Paketes; Daten: `admin:geheim`

Keine Widersprüche zwischen Erkenntnissen festgestellt.

6 Scanning mit nmap

6.1

Die 5 coolsten NMAP-Funktionen (nach [4]):

Security Audits	Network Inventory	Monitoring Host Uptime
Managing Service Upgrade Schedules	Monitoring Service Uptime	

6.2

- Skript vgl. Anhang Anhang: Ping-Skript (Aufgabe 6.2) (S. 8); gewählte Sprache: Bash (Output vgl. Anhang: 6.2 (IP-Liste) (S. 9))

6.3

Im Gegensatz zum `ping`, welcher die meisten Adressen als down angezeigt hat, zeigt `nmap` alle als up an.

- Erzeugung von `nmap` bei einem für einen Ping un erreichbaren Host: vgl. `nmap` bei einem Offline-Host (S. 7)
- Erzeugung von `nmap` bei einem für einen Ping erreichbaren Host: vgl. `nmap` bei einem Offline-Host (S. 7)
- Ermittlung des Up-Status durch Erhalt der HTTP-Antwort

6.4

- Three-Way-Handshake: SequenceNumber(SYN) (x) von Client an Host, Rücksenden von Sequence-Number (y) und AcknowledgeNumber(ACK) (x+1) von Host an Client, Rücksenden von AcknowledgeNumber (y+1) Client an Host. ([5])
- TCP-Connect-Scan durch `sudo nmap -sT 10.1.1.1.2` (vollständiger 3-way-handshake, (SYN)->(SYN+ACK)->(ACK))
- TCP-SYN-Scan durch `sudo nmap -sS 10.1.1.1.2` (nur halber handshake, (SYN)->(SYN+ACK))

6.5

- Scannen aller Ports mit `sudo nmap -p- -sV 172.16.137.146 -oG logs.txt`
- Output enthält 5288/open/tcp//http//Apache httpd 2.2.14 ((Ubuntu))/
• Apache-Webserver im Browser aufgerufen mit 172.16.137.146:5288 (Secret Site)

7 OpenVAS

7.2

Start des OpenVAS-Servers mit `/etc/init.d/openvas-server start`

Der Server konnte einige Plugins nicht laden, was jedoch scheinbar keine weiteren Auswirkungen hatte.

7.4

Login auf dem Server als `user@localhost:user`

7.5

Es wurde auf das Fragezeichen geklickt und der Assistent durchgearbeitet. Währenddessen wurde als Name "localhost" und als IP-Adresse die eigene IP-Adresse gewählt. Danach wurde auf das Stecker-Symbol geklickt, die Daten eingegeben und "ok" betätigt.

localhost hat 2 Sicherheitslücken, die sich laut OpenVAS beide durch Updates beheben lassen. Es werden Weblinks für weitere Nachforschungen zu diesen Sicherheitslücken gegeben.

Desweiteren werden 6 Security-Notes angegeben, es gibt 0 Security Warnings (Protokoll: ?? (S. ??)).

7.6

Eingabe: File -> Scan Assistant -> Task: \$name -> Scope: \$name -> Targets: IP der MysteryVM (172.16.137.146) -> Execute

MysteryVM hat eine Sicherheitslücke, 3 Sicherheitswarnungen und 4 Security Notes (Protokoll: ?? (S. ??)).

Sicherheitslücke: Login-Daten: root:password (Daten sind korrekt, wurden überprüft)

7.7

Nach Eingabe der SSH-Login-Daten in sowohl den Global Settings als auch den Host-Settings wurde ein neuer Scope aufgerufen. Das Ergebnis ist gleich (1 Issue, 3 Warnings, 4 Notes) (Protokoll: ?? (S. ??)). Fazit: OpenVAS erkennt von außen alle Sicherheitsprobleme.

Literatur

- [1] <https://wiki.ubuntuusers.de/tcpdump/>
- [2] <http://danielmessler.com/study/tcpdump/>
- [3] www.alexonlinux.com/tcpdump-for-dummies#...
- [4] <https://nmap.org/book/man.html>
- [5] <https://de.wikipedia.org/wiki/Drei-Wege-Handschlag#/media/File:Three-way-handshake-example.gif>

Anhang: nmap

nmap bei einem Offline-Host

- Ping (ICMP)
- Senden eines HTTPS-Package (TCP)
- Senden eines HTTP-Package (TCP)
- Timestamp anfragen (ICMP)
- Antwort auf HTTP von Remote Host (TCP)

nmap bei einem Online-Host

- Ping (ICMP)
- Ping Response vom Remote Host (ICMP)
- Senden eines HTTPS-Package (TCP)
- Senden eines HTTP-Package (TCP)
- Timestamp anfragen (ICMP)
- Antwort auf HTTP von Remote Host (TCP)

Anhang: 2.2

7.7.1 Anfrage

Output:

```
1 14:01:53:677232 IP (tos 0x0, ttl 64, id 1258, offset 0, flags [DF], proto
  UDP (17), length 60)
2 192.168.254.44.35616 > server.svslab.domain: [udp sum ok] 19679+ A? www
  .google.com. (32)
```

Aufbau ([3]):

```
1 timestamp protocoll (package-information)
2 nameserver > local-domain checksum-check some-number Question? target.
  (num)
```

Antwort

Output:

```
1 14:01:53.677765 IP (tos 0x0, ttl 127, id 21488, offset 0, flags [none],
  proto UDP (17), length 212)
2 server.svslab.domain > 192.168.254.44.35616: [udp sum ok] 19679 q: A?
  www.google.com. 1/4/4 www.google.com. [2m33s] A 216.58.213.228 ns:
  google.com. [1d21h4m48s] NS ns1.google.com., google.com. [1
  d21h4m48s] NS ns3.google.com., google.com. [1d21h4m48s] NS ns2.
  google.com., google.com. [1d21h4m48s] NS ns4.google.com. ar: ns1.
  google.com. [3d21h12m22s] A 216.239.32.10, ns2.google.com. [3
  d21h12m22s] A 216.239.34.10, ns3.google.com. [3d21h12m22s] A
  216.239.36.10, ns4.google.com. [3d21h12m44s] A 216.239.38.10 (184)
```

Anhang: Sniffing

Output des HTTP-Sniffing

```
1 14:37:51.282324 IP (tos 0x0, ttl 64, id 51836, offset 0, flags [DF], proto
   TCP (6), length 487)
2    192.168.254.44.35465 > ham04s01-in-f4.1e100.net.www: Flags [P.], cksum
      0xbb75 (correct), seq 311797790:311798237, ack 398350995, win 9648,
      length 447
3 E....|@.@.....,:.....P.....Z.P.%..u..GET / HTTP/1.1
4 Host: www.google.com
5 User-Agent: Mozilla/5.0 (X11; Ubuntu; Linux i686; rv:10.0.1) Gecko/20100101
      Firefox/10.0.1
6 Accept: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8
7 Accept-Language: en-us,en;q=0.5
8 Accept-Encoding: gzip, deflate
9 Connection: keep-alive
10 Cookie: NID=79=
      WlzebisuVRgORNA05jSpuedXCNNs1eBM8yEMd8n30_0luRdkzWbkChEEQ4YgUvHTWB3a64hs
      LjaseRkBrUN1vGIU56_9YOWlq0yWpZRTS4cdFs9-0wKsmJyANZ1uZ7UPnFbMMSPb
```

Output des HTTPS-Sniffing

```
1 14:27:10.394893 IP (tos 0x0, ttl 64, id 18592, offset 0, flags [DF], proto
   TCP (6), length 60)
2    192.168.254.44.35453 > ham04s01-in-f4.1e100.net.www: tcp 0
```

Output von urlsnarf

```
1 192.168.254.44 - - [26/May/2016:15:03:07 +0200] "GET http://10.1.1.2/
   verysecure/ HTTP/1.1" - - "-" "Mozilla/5.0 (X11; Ubuntu; Linux i686; rv
   :10.0.1) Gecko/20100101 Firefox/10.0.1"
```

Output von dsniff

```
1 dsniff: listening on eth1
2 -----
3 05/26/16 15:06:17 tcp 192.168.254.44.56594 -> labservervm.svslab.80 (http)
4 GET /verysecure/ HTTP/1.1
5 Host: 10.1.1.2
6 Authorization: Basic YWxpY2U6c2VocmdlaGVpbQ== [alice:sehrgeheim]
```

Anhang: Ping-Skript (Aufgabe 6.2)

```
1 #!/bin/bash
2 COUNTER=0
3 LIMIT=255
4 while [ $COUNTER -lt $LIMIT ]; do
5     echo "pinging 10.1.1.$COUNTER"
6     ping -c1 10.1.1.$COUNTER
7     let COUNTER=COUNTER+1
8 done
```


Anhang: 6.2 (IP-Liste)

- 10.1.1.1
- 10.1.1.2
- 10.1.1.5
- 10.1.1.11
- 10.1.1.21
- 10.1.1.31
- 10.1.1.41
- 10.1.1.51
- 10.1.1.61
- 10.1.1.71
- 10.1.1.81
- 10.1.1.91
- 10.1.1.101
- 10.1.1.111
- 10.1.1.121
- 10.1.1.131
- 10.1.1.181
- 10.1.1.186
- 10.1.1.218
- 10.1.1.222
- 10.1.1.235
- 10.1.1.238
- 10.1.1.254

Anhang: Security-Protokoll localhost

```
1 OpenVAS Scan Report
2 -----
3
4
5
6 SUMMARY
7
8 - Number of hosts which were alive during the test : 1
9 - Number of security holes found : 2
10 - Number of security warnings found : 0
11 - Number of security notes found : 6
12 - Number of false positives found : 0
```

```
13
14
15
16 TESTED HOSTS
17
18   localhost (Security holes found)
19
20
21
22 DETAILS
23
24 + localhost :
25   . List of open ports :
26     o ipp (631/tcp) (Security hole found)
27     o otp (9390/tcp)
28     o general/tcp (Security notes found)
29     o general/IT-Grundschatz
30     o general/HOST-T
31     o general/IT-Grundschatz-T
32     o general/CPE-T
33
34   . Vulnerability found on port ipp (631/tcp) :
35
36
37     Overview:
38     CUPS is prone to a NULL-pointer dereference vulnerability.
39
40     Successful exploits may allow attackers to execute arbitrary code with
41     the privileges of a user running the application. Failed exploit
42     attempts likely cause denial-of-service conditions.
43
44     CUPS versions prior to 1.4.4 are affected.
45
46     Solution:
47     Updates are available. Please see the references for more information.
48
49     References:
50     https://www.securityfocus.com/bid/40943
51     http://cups.org/articles.php?L596
52     http://www.cups.org
53     http://cups.org/str.php?L3516
54     CVE : CVE-2010-0542, CVE-2010-2431, CVE-2010-2432
55     BID : 40943
56
57   . Vulnerability found on port ipp (631/tcp) :
58
59
60     Overview:
61     CUPS Web Interface is prone to Multiple Vulnerabilities.
62
63     1.
64     A remote information-disclosure vulnerability. This
65     issue affects the CUPS web interface component.
66
67     Remote attackers can exploit this issue to obtain sensitive
68     information that may lead to further attacks.
69
70     2.
71     A cross-site request-forgery vulnerability.
```

```
72
73   Attackers can exploit this issue to perform certain administrative
74   actions and gain unauthorized access to the affected application.
75
76   Solution:
77   Updates are available. Please see the references for more information.
78
79   References:
80   https://www.securityfocus.com/bid/40897
81   http://cups.org/articles.php?L596
82   http://www.apple.com/macosx/
83   CVE : CVE-2010-1748, CVE-2010-0540
84   BID : 40897, 40889
85
86 . Information found on port ipp (631/tcp)
87
88
89   A web server is running on this port
90
91 . Information found on port ipp (631/tcp)
92
93
94   The remote web server type is :
95
96   CUPS/1.4
97
98
99 . Information found on port ipp (631/tcp)
100
101
102   The following CGI have been discovered :
103
104   Syntax : cginame (arguments [default value])
105
106   /help/api-cups.html (TOPIC [Programming] QUERY [] )
107   /help/ref-page_log.html (QUERY [] TOPIC [References] )
108   /help/accounting.html (TOPIC [Getting+Started] QUERY [] )
109   /help/api-ppdc.html (QUERY [] TOPIC [Programming] )
110   /help/api-raster.html (QUERY [] TOPIC [Programming] )
111   /help/options.html (QUERY [] TOPIC [Getting+Started] )
112   /help/sharing.html (TOPIC [Getting+Started] QUERY [] )
113   /help/api-httplib.html (QUERY [] TOPIC [Programming] )
114   /help/ref-error_log.html (QUERY [] TOPIC [References] )
115   /admin/ (org.cups.sid [c5b6d66ae87a624fdd00590f7c27afd8] OP [add-
       printer] )
116   /help/translation.html (TOPIC [Getting+Started] QUERY [] )
117   /help/policies.html (TOPIC [Getting+Started] QUERY [] )
118   /printers/ (CLEAR [Clear] QUERY [] )
119   /help/glossary.html (TOPIC [Getting+Started] QUERY [] )
120   /help/api-array.html (TOPIC [Programming] QUERY [] )
121   /help/cgi.html (TOPIC [Getting+Started] QUERY [] )
122   /help/overview.html (TOPIC [Getting+Started] QUERY [] )
123   /help/standard.html (TOPIC [Getting+Started] QUERY [] )
124   /help/network.html (TOPIC [Getting+Started] QUERY [] )
125   /help/api-filter.html (TOPIC [Programming] QUERY [] )
126   /help/api-overview.html (TOPIC [Programming] QUERY [] )
127   /jobs (which_jobs [completed] )
128   /help/api-filedir.html (QUERY [] TOPIC [Programming] )
129   /jobs/ (CLEAR [Clear] ORDER [asc] QUERY [] )
```

```
130 /help/license.html (TOPIC [Getting+Started] QUERY [] )
131 /help/whatsnew.html (QUERY [] TOPIC [Getting+Started] )
132 /help/ref-access_log.html (TOPIC [References] QUERY [] )
133 /help/ref-client-conf.html (TOPIC [References] QUERY [] )
134 /help/ref-cupsd-conf.html (TOPIC [References] QUERY [] )
135 /help/ref-snmp-conf.html (TOPIC [References] QUERY [] )
136 /help/ (SEARCH [Search] CLEAR [Clear] TOPIC [Getting+Started] QUERY []
    )
137 /help/security.html (TOPIC [Getting+Started] QUERY [] )
138 /help/postscript-driver.html (QUERY [] TOPIC [Programming] )
139 /help/raster-driver.html (QUERY [] TOPIC [Programming] )
140 /help/ppd-compiler.html (TOPIC [Programming] QUERY [] )
141 /help/api-driver.html (TOPIC [Programming] QUERY [] )
142 /classes/ (CLEAR [Clear] QUERY [] )
143 /admin/log/error_log ()
144 /admin/log/access_log ()
145 /help/kerberos.html (TOPIC [Getting+Started] QUERY [] )
146 /help/ref-ppdcfile.html (TOPIC [References] QUERY [] )
147 /help/ref-classes-conf.html (TOPIC [References] QUERY [] )
148 /help/api-mime.html (QUERY [] TOPIC [Programming] )
149 /help/api-ppd.html (TOPIC [Programming] QUERY [] )
150 /help/ref-mailto-conf.html (QUERY [] TOPIC [References] )
151 /help/ref-printers-conf.html (QUERY [] TOPIC [References] )
152 /help/ref-subscriptions-conf.html (TOPIC [References] QUERY [] )
153 /help/api-cgi.html (QUERY [] TOPIC [Programming] )
154
155
156 . Information found on port general/tcp
157
158
159     CUPS version 1.4.3 running at location / was detected on the host
160
161 . Information found on port general/tcp
162
163
164     CUPS version 1.4.3 running at location /admin/ was detected on the host
165
166 . Information found on port general/tcp
167
168
169     CUPS version 1.4.3 running at location /admin/log was detected on the
        host
170
171
172
173
174 -----
175 This file was generated by the OpenVAS Security Scanner [http://www.openvas
    .org]
```

Anhang: Security-Protokoll MysteryVM

```
1 OpenVAS Scan Report
2 -----
3
4
5
```

```
6 SUMMARY
7
8 - Number of hosts which were alive during the test : 1
9 - Number of security holes found : 1
10 - Number of security warnings found : 3
11 - Number of security notes found : 4
12 - Number of false positives found : 0
13
14
15
16 TESTED HOSTS
17
18 172.16.137.146 (Security holes found)
19
20
21
22 DETAILS
23
24 + 172.16.137.146 :
25 . List of open ports :
26   o complex-main (5000/tcp)
27   o complex-link (5001/tcp)
28   o rfe (5002/tcp)
29   o ssh (22/tcp) (Security hole found)
30   o fmpo-internal (5003/tcp) (Security notes found)
31   o avt-profile-1 (5004/tcp)
32   o avt-profile-2 (5005/tcp)
33   o wsm-server (5006/tcp)
34   o wsm-server-ssl (5007/tcp)
35   o synopsis-edge (5008/tcp)
36   o ultima-online-game (5009/tcp)
37   o telelpathstart (5010/tcp)
38   o telelpathattack (5011/tcp)
39   o zenginkyo-1 (5020/tcp)
40   o zenginkyo-2 (5021/tcp)
41   o mice (5022/tcp)
42   o htuiisrv (5023/tcp)
43   o scpi-telnet (5024/tcp)
44   o scpi-raw (5025/tcp)
45   o netmetro (5031/tcp)
46   o asnaacceler8db (5042/tcp)
47   o mmcc (5050/tcp)
48   o ita-agent (5051/tcp)
49   o ita-manager (5052/tcp)
50   o java-service (5053/tcp)
51   o java-service (5054/tcp)
52   o unot (5055/tcp)
53   o intecom-ps1 (5056/tcp)
54   o intecom-ps2 (5057/tcp)
55   o sip (5060/tcp)
56   o sip-tls (5061/tcp)
57   o ca-1 (5064/tcp)
58   o ca-2 (5065/tcp)
59   o stanag-5066 (5066/tcp)
60   o i-net-2000-npr (5069/tcp)
61   o powerschool (5071/tcp)
62   o sdl-ets (5081/tcp)
63   o sentinel-lm (5093/tcp)
64   o sentlm-srv2srv (5099/tcp)
```

```
65 o admd (5100/tcp)
66 o talarian-tcp (5101/tcp) (Security notes found)
67 o admeng (5102/tcp)
68 o ctsd (5137/tcp)
69 o rmonitor_secure (5145/tcp)
70 o atmp (5150/tcp)
71 o esri_sde (5151/tcp)
72 o sde-discovery (5152/tcp)
73 o bzflag (5154/tcp)
74 o ife_icorp (5165/tcp)
75 o aol (5190/tcp)
76 o aol-1 (5191/tcp)
77 o aol-2 (5192/tcp)
78 o aol-3 (5193/tcp)
79 o targus-getdata (5200/tcp)
80 o targus-getdata1 (5201/tcp)
81 o targus-getdata2 (5202/tcp)
82 o targus-getdata3 (5203/tcp)
83 o jabber-client (5222/tcp)
84 o hp-server (5225/tcp)
85 o hp-status (5226/tcp)
86 o sgi-dgl (5232/tcp)
87 o padl2sim (5236/tcp)
88 o igateway (5250/tcp)
89 o caevms (5251/tcp)
90 o 3com-njack-1 (5264/tcp)
91 o 3com-njack-2 (5265/tcp)
92 o jabber-server (5269/tcp)
93 o pk (5272/tcp)
94 o transmit-port (5282/tcp)
95 o hacl-hb (5300/tcp)
96 o hacl-gs (5301/tcp)
97 o hacl-cfg (5302/tcp)
98 o hacl-probe (5303/tcp)
99 o hacl-local (5304/tcp)
100 o hacl-test (5305/tcp)
101 o sun-mc-grp (5306/tcp)
102 o sco-aip (5307/tcp)
103 o cfengine (5308/tcp)
104 o jprinter (5309/tcp)
105 o outlaws (5310/tcp)
106 o tmlogin (5311/tcp)
107 o opalis-rbt-ipc (5314/tcp)
108 o hacl-poll (5315/tcp)
109 o nat-pmp (5351/tcp)
110 o dns-llq (5352/tcp)
111 o mdns (5353/tcp)
112 o mdnsresponder (5354/tcp)
113 o llmnr (5355/tcp)
114 o excerpt (5400/tcp)
115 o excerpts (5401/tcp)
116 o mftp (5402/tcp)
117 o hpoms-ci-lstn (5403/tcp)
118 o hpoms-dps-lstn (5404/tcp)
119 o netsupport (5405/tcp)
120 o systemics-sox (5406/tcp)
121 o foresyte-clear (5407/tcp)
122 o foresyte-sec (5408/tcp)
123 o salient-dtasrv (5409/tcp)
```

```
124 | o salient-usrmgr (5410/tcp)
125 | o actnet (5411/tcp)
126 | o continuus (5412/tcp)
127 | o wwiotalk (5413/tcp)
128 | o statusd (5414/tcp)
129 | o ns-server (5415/tcp)
130 | o sns-gateway (5416/tcp)
131 | o sns-agent (5417/tcp)
132 | o mcntp (5418/tcp)
133 | o dj-ice (5419/tcp)
134 | o cylink-c (5420/tcp)
135 | o netsupport2 (5421/tcp)
136 | o salient-mux (5422/tcp)
137 | o virtualuser (5423/tcp)
138 | o beyond-remote (5424/tcp)
139 | o br-channel (5425/tcp)
140 | o devbasic (5426/tcp)
141 | o sco-peer-tta (5427/tcp)
142 | o telaconsole (5428/tcp)
143 | o base (5429/tcp)
144 | o radec-corp (5430/tcp)
145 | o park-agent (5431/tcp)
146 | o postgresql (5432/tcp)
147 | o dttl (5435/tcp)
148 | o apc-5454 (5454/tcp)
149 | o apc-5455 (5455/tcp)
150 | o apc-5456 (5456/tcp)
151 | o silkmeter (5461/tcp)
152 | o ttl-publisher (5462/tcp)
153 | o ttlpriceproxy (5463/tcp)
154 | o netops-broker (5465/tcp)
155 | o fcp-addr-srvr1 (5500/tcp)
156 | o fcp-addr-srvr2 (5501/tcp)
157 | o fcp-srvr-inst1 (5502/tcp)
158 | o fcp-srvr-inst2 (5503/tcp)
159 | o fcp-cics-gw1 (5504/tcp)
160 | o secureidprop (5510/tcp)
161 | o sdlog (5520/tcp)
162 | o illusionmailer (5521/tcp)
163 | o sdserv (5530/tcp)
164 | o sdreport (5540/tcp)
165 | o sdadmind (5550/tcp)
166 | o sgi-eventmond (5553/tcp)
167 | o sgi-esphttp (5554/tcp)
168 | o personal-agent (5555/tcp)
169 | o remotewatch (5556/tcp)
170 | o udpplus (5566/tcp)
171 | o robohack (5569/tcp)
172 | o the-qube (5595/tcp)
173 | o the-qube (5596/tcp)
174 | o the-qube (5597/tcp)
175 | o the-qube (5598/tcp)
176 | o esinstall (5599/tcp)
177 | o esmmanager (5600/tcp)
178 | o esmagent (5601/tcp)
179 | o a1-msc (5602/tcp)
180 | o a1-bs (5603/tcp)
181 | o a3-sdunode (5604/tcp)
182 | o a4-sdunode (5605/tcp)
```

```
183 o pcanywheredata (5631/tcp)
184 o pcanywherestat (5632/tcp)
185 o netsaint (5666/tcp)
186 o jms (5673/tcp)
187 o hyperscsi-port (5674/tcp)
188 o v5ua (5675/tcp)
189 o raadmin (5676/tcp)
190 o questdb2-lnchr (5677/tcp)
191 o rrac (5678/tcp)
192 o dccm (5679/tcp)
193 o canna (5680/tcp)
194 o ggz (5688/tcp)
195 o winmx (5690/tcp)
196 o proshareaudio (5713/tcp)
197 o prosharevideo (5714/tcp)
198 o prosharedata (5715/tcp)
199 o prosharerequest (5716/tcp)
200 o prosharenotify (5717/tcp)
201 o ms-licensing (5720/tcp)
202 o openmail (5729/tcp)
203 o unieng (5730/tcp)
204 o ida-discover1 (5741/tcp)
205 o ida-discover2 (5742/tcp)
206 o fcopy-server (5745/tcp)
207 o fcopys-server (5746/tcp)
208 o openmailg (5755/tcp)
209 o x500ms (5757/tcp)
210 o openmailns (5766/tcp)
211 o s-openmail (5767/tcp)
212 o openmailpxy (5768/tcp)
213 o netagent (5771/tcp)
214 o vnc-http (5800/tcp)
215 o vnc-http-1 (5801/tcp)
216 o vnc-http-2 (5802/tcp)
217 o vnc-http-3 (5803/tcp)
218 o icmpd (5813/tcp)
219 o otadmin (5858/tcp)
220 o wherehoo (5859/tcp)
221 o y3k (5882/tcp)
222 o y3k (5888/tcp)
223 o y3k (5889/tcp)
224 o vnc (5900/tcp)
225 o vnc-1 (5901/tcp)
226 o vnc-2 (5902/tcp)
227 o vnc-3 (5903/tcp)
228 o mppolicy-v5 (5968/tcp)
229 o mppolicy-mgr (5969/tcp)
230 o ncd-pref-tcp (5977/tcp)
231 o ncd-diag-tcp (5978/tcp)
232 o ncd-conf-tcp (5979/tcp)
233 o wbem-rmi (5987/tcp)
234 o wbem-http (5988/tcp)
235 o wbem-https (5989/tcp)
236 o wbem-local (5990/tcp)
237 o nuxsl (5991/tcp)
238 o ncd-pref (5997/tcp)
239 o ncd-diag (5998/tcp)
240 o cvsup (5999/tcp)
241 o x11 (6000/tcp)
```



```
242 o general/tcp (Security warnings found)
243 o general/IT-Grundschatz
244 o general/icmp (Security notes found)
245 o general/HOST-T
246 o general/IT-Grundschatz-T
247 o general/CPE-T
248
249 . Vulnerability found on port ssh (22/tcp) :
250
251
252 Overview:
253 It was possible to login into the remote host using default credentials
254 .
255 Solution:
256 Change the password as soon as possible.
257
258 It was possible to login with the following credentials <User>:<
    Password>
259
260 root:password
261
262
263 . Warning found on port ssh (22/tcp)
264
265
266 According to its banner, the version of OpenSSH installed on the remote
267 host is older than 5.7:
268 ssh-2.0-openssh_5.3p1 debian-3ubuntu7
269
270 Overview:
271 The auth_parse_options function in auth-options.c in sshd in OpenSSH
    before
272 5.7
273 provides debug messages containing authorized_keys command options,
    which
274 allows
275 remote authenticated users to obtain potentially sensitive information
    by
276 reading these messages, as demonstrated by the shared user account
    required
277 by
278 Gitolite. NOTE: this can cross privilege boundaries because a user
    account
279 may
280 intentionally have no shell or filesystem access, and therefore may
    have no
281 supported way to read an authorized_keys file in its own home directory
    .
282
283 OpenSSH before 5.7 is affected;
284
285 Solution:
286 Updates are available. Please see the references for more information.
287
288 References:
289 http://www.securityfocus.com/bid/51702
290 http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=657445
291 http://packages.debian.org/squeeze/openssh-server
```

```
292 https://downloads.avaya.com/css/P8/documents/100161262
293 CVE : CVE-2012-0814
294 BID : 51702
295
296 . Information found on port ssh (22/tcp)
297
298
299 An ssh server is running on this port
300
301 . Information found on port fmpo-internal (5003/tcp)
302
303
304
305 The remote host is running the Filemaker database server.
306 FileMaker Pro is a cross-platform relational database application from
307 FileMaker Inc.,
308 a subsidiary of Apple Inc., has compatible versions for both the Mac OS
309 X
310 and Microsoft Windows operating systems
311
312 Solution :
313 You should Allow connection to this host only from trusted host or
314 networks,
315 or disable the service if not used.
316
317 Risk factor : None
318
319 . Information found on port talarian-tcp (5101/tcp)
320
321
322
323 Yahoo Messenger is running on this machine and this port. It can
324 be used to share files and chat with other users.
325
326 Tested with Yahoo Messenger versions 7 and 8.
327
328 References:
329 http://libyahoo2.sourceforge.net/ymsg-9.txt
330 http://www.astahost.com/info.php/yahoo-protocol-part-10-peer-peer-
331 transfers_t11490.html
332 http://libyahoo2.sourceforge.net/README
333 http://www.ycoderscookbook.com/
334 http://www.venkydude.com/articles/yahoo.htm
335 Risk factor :None
336
337
338
339
340 . Warning found on port general/tcp
341
342
343
344 Synopsis :
345
346 The remote service implements TCP timestamps.
347
348 Description :
```

```
349
350 The remote host implements TCP timestamps, as defined by RFC1323.
351 A side effect of this feature is that the uptime of the remote
352 host can sometimes be computed.
353
354 See also :
355
356 http://www.ietf.org/rfc/rfc1323.txt
357
358 Risk factor :
359
360 None
361
362 . Warning found on port general/tcp
363
364
365 Overview: The host is running TCP services and is prone to denial of
366 service
367 vulnerability.
368
369 Vulnerability Insight:
370 The flaw is triggered when spoofed TCP Reset packets are received by
371 the
372 targeted TCP stack and will result in loss of availability for the
373 attacked
374 TCP services.
375
376 Impact:
377 Successful exploitation will allow remote attackers to guess sequence
378 numbers
379 and cause a denial of service to persistent TCP connections by
380 repeatedly
381 injecting a TCP RST packet.
382
383 Impact Level: System
384
385 Affected Software/OS:
386 TCP
387
388 Fix: Please see the referenced advisories for more information on
389 obtaining
390 and applying fixes.
391
392 References:
393 http://www.osvdb.org/4030
394 http://xforce.iss.net/xforce/xfdb/15886
395 http://www.us-cert.gov/cas/techalerts/TA04-111A.html
396 http://www-01.ibm.com/support/docview.wss?uid=isg1IY55949
397 http://www-01.ibm.com/support/docview.wss?uid=isg1IY55950
398 http://www-01.ibm.com/support/docview.wss?uid=isg1IY62006
399 http://www.microsoft.com/technet/security/Bulletin/MS05-019.msp
400 http://www.microsoft.com/technet/security/bulletin/ms06-064.msp
401 http://www.cisco.com/en/US/products/csa/cisco-sa-20040420-tcp-nonios.
402 html
403 http://www.cisco.com/en/US/products/csa/cisco-sa-20040420-tcp-nonios.
404 html
405 CVE : CVE-2004-0230
406 BID : 10183
```

```
404
405 . Information found on port general/icmp
406
407
408     Here is the route recorded between 172.16.137.222 and 172.16.137.146 :
409     172.16.137.146.
410     172.16.137.146.
411
412
413
414
415
416 -----
417 This file was generated by the OpenVAS Security Scanner [http://www.openvas
    .org]
```

Anhang: Security-Protokoll MysteryVM-SSH

```
1 OpenVAS Scan Report
2 -----
3
4
5
6 SUMMARY
7
8 - Number of hosts which were alive during the test : 1
9 - Number of security holes found : 1
10 - Number of security warnings found : 3
11 - Number of security notes found : 4
12 - Number of false positives found : 0
13
14
15
16 TESTED HOSTS
17
18 172.16.137.146 (Security holes found)
19
20
21
22 DETAILS
23
24 + 172.16.137.146 :
25 . List of open ports :
26   o ssh (22/tcp) (Security hole found)
27   o complex-main (5000/tcp)
28   o complex-link (5001/tcp)
29   o rfe (5002/tcp)
30   o fmpro-internal (5003/tcp) (Security notes found)
31   o avt-profile-1 (5004/tcp)
32   o avt-profile-2 (5005/tcp)
33   o wsm-server (5006/tcp)
34   o wsm-server-ssl (5007/tcp)
35   o synapsis-edge (5008/tcp)
36   o ultima-online-game (5009/tcp)
37   o telelpathstart (5010/tcp)
38   o telelpathattack (5011/tcp)
39   o zenginkyo-1 (5020/tcp)
```

```
40 o zenginkyo-2 (5021/tcp)
41 o mice (5022/tcp)
42 o htutilsrv (5023/tcp)
43 o scpi-telnet (5024/tcp)
44 o scpi-raw (5025/tcp)
45 o netmetro (5031/tcp)
46 o asnaacceler8db (5042/tcp)
47 o mmcc (5050/tcp)
48 o ita-agent (5051/tcp)
49 o ita-manager (5052/tcp)
50 o java-service (5053/tcp)
51 o java-service (5054/tcp)
52 o unot (5055/tcp)
53 o intecom-ps1 (5056/tcp)
54 o intecom-ps2 (5057/tcp)
55 o sip (5060/tcp)
56 o sip-tls (5061/tcp)
57 o ca-1 (5064/tcp)
58 o ca-2 (5065/tcp)
59 o stanag-5066 (5066/tcp)
60 o i-net-2000-npr (5069/tcp)
61 o powerschool (5071/tcp)
62 o sdl-ets (5081/tcp)
63 o sentinel-lm (5093/tcp)
64 o sentlm-srv2srv (5099/tcp)
65 o admd (5100/tcp)
66 o talarian-tcp (5101/tcp) (Security notes found)
67 o admeng (5102/tcp)
68 o ctsd (5137/tcp)
69 o rmonitor_secure (5145/tcp)
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73 o bzflag (5154/tcp)
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86 o sgi-dgl (5232/tcp)
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94 o transmit-port (5282/tcp)
95 o hacl-hb (5300/tcp)
96 o hacl-gs (5301/tcp)
97 o hacl-cfg (5302/tcp)
98 o hacl-probe (5303/tcp)
```

```
99 | o hacl-local (5304/tcp)
100 | o hacl-test (5305/tcp)
101 | o sun-mc-grp (5306/tcp)
102 | o sco-aip (5307/tcp)
103 | o cfengine (5308/tcp)
104 | o jprinter (5309/tcp)
105 | o outlaws (5310/tcp)
106 | o tmlogin (5311/tcp)
107 | o opalis-rbt-ipc (5314/tcp)
108 | o hacl-poll (5315/tcp)
109 | o nat-pmp (5351/tcp)
110 | o dns-llq (5352/tcp)
111 | o mdns (5353/tcp)
112 | o mdnsresponder (5354/tcp)
113 | o llmnr (5355/tcp)
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115 | o excerpts (5401/tcp)
116 | o mftp (5402/tcp)
117 | o hpoms-ci-lstn (5403/tcp)
118 | o hpoms-dps-lstn (5404/tcp)
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135 | o netsupport2 (5421/tcp)
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150 | o apc-5456 (5456/tcp)
151 | o silkmeter (5461/tcp)
152 | o ttl-publisher (5462/tcp)
153 | o ttlpriceproxy (5463/tcp)
154 | o netops-broker (5465/tcp)
155 | o fcp-addr-srvr1 (5500/tcp)
156 | o fcp-addr-srvr2 (5501/tcp)
157 | o fcp-srvr-inst1 (5502/tcp)
```

```
158 o fcp-srvr-inst2 (5503/tcp)
159 o fcp-cics-gw1 (5504/tcp)
160 o secureidprop (5510/tcp)
161 o sdlog (5520/tcp)
162 o illusionmailer (5521/tcp)
163 o sdserv (5530/tcp)
164 o sdreport (5540/tcp)
165 o sdadmin (5550/tcp)
166 o sgi-eventmond (5553/tcp)
167 o sgi-esphhttp (5554/tcp)
168 o personal-agent (5555/tcp)
169 o remotewatch (5556/tcp)
170 o udpplus (5566/tcp)
171 o robohack (5569/tcp)
172 o the-qube (5595/tcp)
173 o the-qube (5596/tcp)
174 o the-qube (5597/tcp)
175 o the-qube (5598/tcp)
176 o esinstall (5599/tcp)
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211 o s-openmail (5767/tcp)
212 o openmailpxy (5768/tcp)
213 o netagent (5771/tcp)
214 o vnc-http (5800/tcp)
215 o vnc-http-1 (5801/tcp)
216 o vnc-http-2 (5802/tcp)
```

```
217   o vnc-http-3 (5803/tcp)
218   o icmpd (5813/tcp)
219   o otadmin (5858/tcp)
220   o wherehoo (5859/tcp)
221   o y3k (5882/tcp)
222   o y3k (5888/tcp)
223   o y3k (5889/tcp)
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228   o mppolicy-v5 (5968/tcp)
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230   o ncd-pref-tcp (5977/tcp)
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237   o nuxsl (5991/tcp)
238   o ncd-pref (5997/tcp)
239   o ncd-diag (5998/tcp)
240   o cvsup (5999/tcp)
241   o x11 (6000/tcp)
242   o general/tcp (Security warnings found)
243   o general/IT-Grundschatz
244   o general/icmp (Security notes found)
245   o general/HOST-T
246   o general/IT-Grundschatz-T
247   o general/CPE-T
248
249 . Vulnerability found on port ssh (22/tcp) :
250
251
252   Overview:
253   It was possible to login into the remote host using default credentials
254   .
255
256   Solution:
257   Change the password as soon as possible.
258
259   It was possible to login with the following credentials <User>:<
260   Password>
261
262   root:password
263
264 . Warning found on port ssh (22/tcp)
265
266   According to its banner, the version of OpenSSH installed on the remote
267   host is older than 5.7:
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269
270   Overview:
271   The auth_parse_options function in auth-options.c in sshd in OpenSSH
272   before
273   5.7
```



```
273 provides debug messages containing authorized_keys command options,
274     which
275     allows
276     remote authenticated users to obtain potentially sensitive information
277     by
278     reading these messages, as demonstrated by the shared user account
279     required
280     by
281     Gitolite. NOTE: this can cross privilege boundaries because a user
282     account
283     may
284     intentionally have no shell or filesystem access, and therefore may
285     have no
286     supported way to read an authorized_keys file in its own home directory
287     .
288
289 OpenSSH before 5.7 is affected;
290
291 Solution:
292 Updates are available. Please see the references for more information.
293
294 References:
295 http://www.securityfocus.com/bid/51702
296 http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=657445
297 http://packages.debian.org/squeeze/openssh-server
298 https://downloads.avaya.com/css/P8/documents/100161262
299 CVE : CVE-2012-0814
300 BID : 51702
301
302 . Information found on port ssh (22/tcp)
303
304
305 An ssh server is running on this port
306
307 . Information found on port fmpo-internal (5003/tcp)
308
309
310 The remote host is running the Filemaker database server.
311 FileMaker Pro is a cross-platform relational database application from
312 FileMaker Inc.,
313 a subsidiary of Apple Inc., has compatible versions for both the Mac OS
314 X
315 and Microsoft Windows operating systems
316
317
318 Solution :
319 You should Allow connection to this host only from trusted host or
320 networks,
321 or disable the service if not used.
322
323 Risk factor : None
324
325 . Information found on port talarian-tcp (5101/tcp)
326
327
328 Yahoo Messenger is running on this machine and this port. It can
329 be used to share files and chat with other users.
```

```
325
326     Tested with Yahoo Messenger versions 7 and 8.
327
328     References:
329     http://libyahoo2.sourceforge.net/ymsg-9.txt
330     http://www.astahost.com/info.php/yahoo-protocol-part-10-peer-peer-
        transfers_t11490.html
331     http://libyahoo2.sourceforge.net/README
332     http://www.ycoderscookbook.com/
333     http://www.venkydude.com/articles/yahoo.htm
334
335 Risk factor :None
336
337
338
339
340 . Warning found on port general/tcp
341
342
343
344     Synopsis :
345
346     The remote service implements TCP timestamps.
347
348     Description :
349
350     The remote host implements TCP timestamps, as defined by RFC1323.
351     A side effect of this feature is that the uptime of the remote
352     host can sometimes be computed.
353
354     See also :
355
356     http://www.ietf.org/rfc/rfc1323.txt
357
358     Risk factor :
359
360     None
361
362 . Warning found on port general/tcp
363
364
365
366     Overview: The host is running TCP services and is prone to denial of
367     service
368     vulnerability.
369
370     Vulnerability Insight:
371     The flaw is triggered when spoofed TCP Reset packets are received by
        the
372     targeted TCP stack and will result in loss of availability for the
373     attacked
374     TCP services.
375
376     Impact:
377     Successful exploitation will allow remote attackers to guess sequence
378     numbers
379     and cause a denial of service to persistent TCP connections by
        repeatedly
380     injecting a TCP RST packet.
```

```
381
382     Impact Level: System
383
384     Affected Software/OS:
385     TCP
386
387     Fix: Please see the referenced advisories for more information on
388     obtaining
389     and applying fixes.
390
391     References:
392     http://www.osvdb.org/4030
393     http://xforce.iss.net/xforce/xfdb/15886
394     http://www.us-cert.gov/cas/techalerts/TA04-111A.html
395     http://www-01.ibm.com/support/docview.wss?uid=isg1IY55949
396     http://www-01.ibm.com/support/docview.wss?uid=isg1IY55950
397     http://www-01.ibm.com/support/docview.wss?uid=isg1IY62006
398     http://www.microsoft.com/technet/security/Bulletin/MS05-019.msp
399     http://www.microsoft.com/technet/security/bulletin/ms06-064.msp
400     http://www.cisco.com/en/US/products/csa/cisco-sa-20040420-tcp-nonios.
401     html
402     http://www.cisco.com/en/US/products/csa/cisco-sa-20040420-tcp-nonios.
403     html
404     CVE : CVE-2004-0230
405     BID : 10183
406
407     . Information found on port general/icmp
408
409     Here is the route recorded between 172.16.137.222 and 172.16.137.146 :
410     172.16.137.146.
411     172.16.137.146.
412
413
414
415
416 -----
417 This file was generated by the OpenVAS Security Scanner [http://www.openvas
    .org]
```

Abbildung 1: Wireshark-Screenshot zu Aufgabe 5.4

