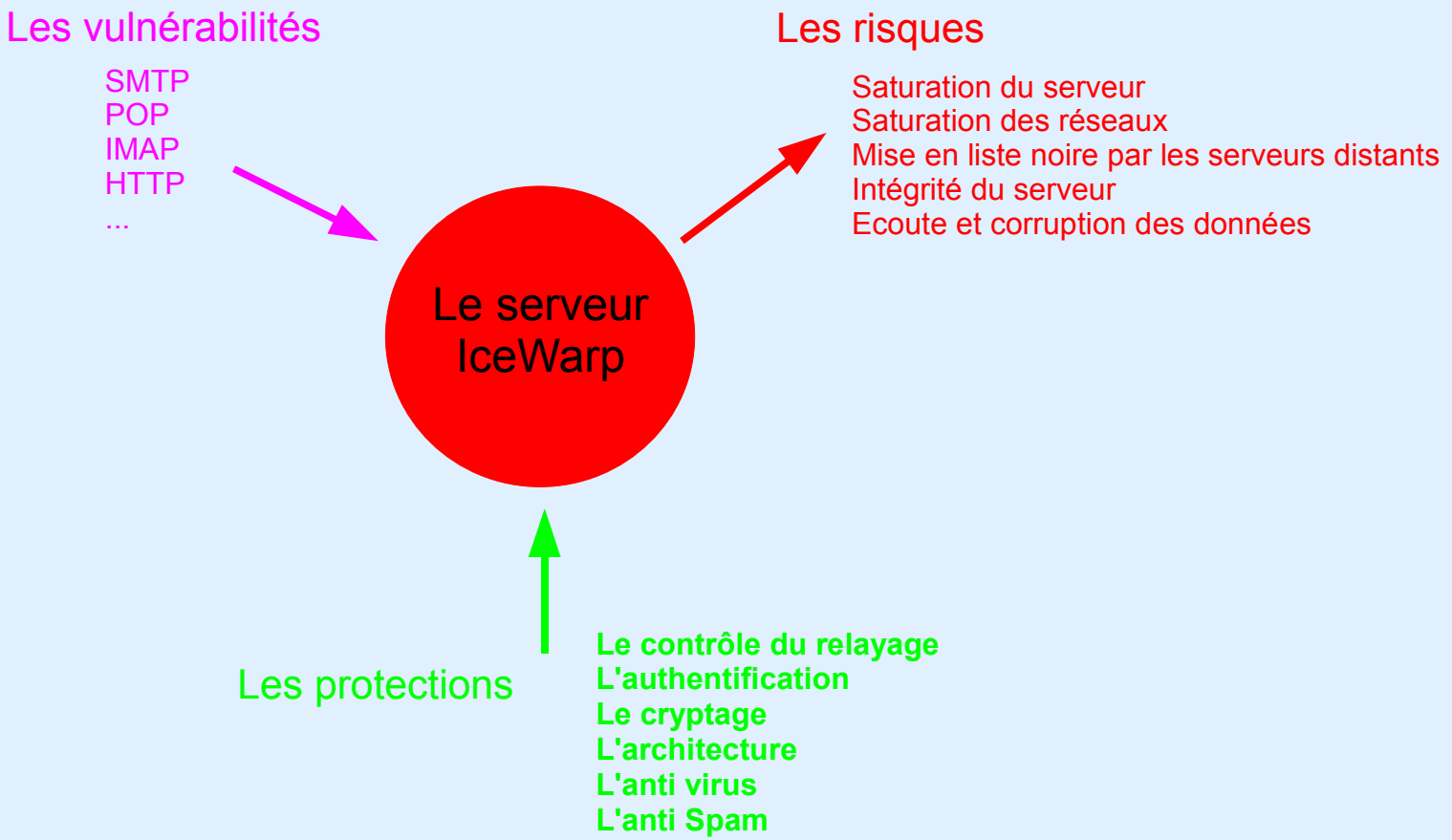
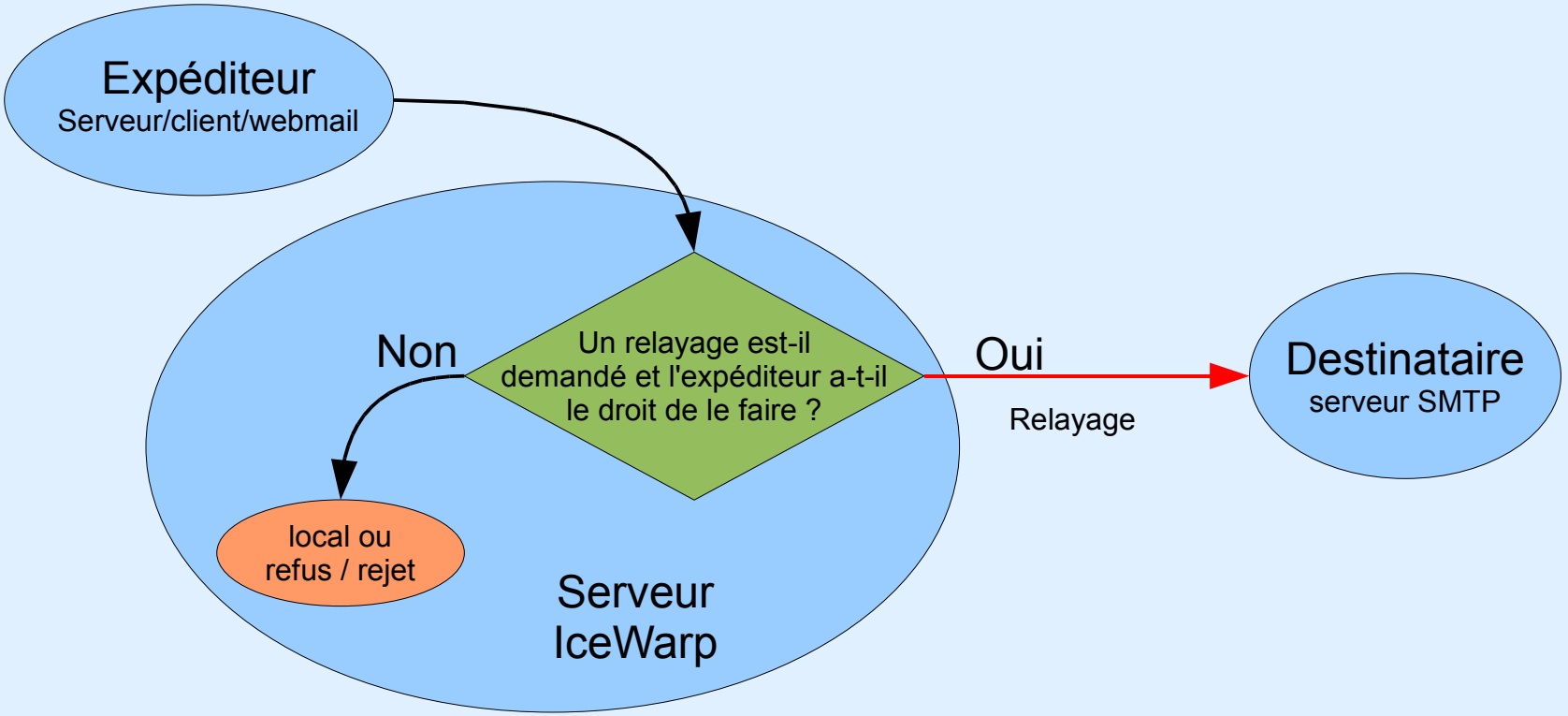
Webinaire sur la sécurité du serveur IceWarp

15 octobre 2009

La sécurité


Les vulnérabilités
SMTP
POP
IMAP
HTTP
...
Les risques
Saturation du serveur
Saturation des réseaux
Mise en liste noire par les serveurs distants
Intégrité du serveur
Ecoute et corruption des données
Le serveur IceWarp
Les protections
Le contrôle du relayage
L'authentification
Le cryptage
L'architecture
L'anti virus
L'anti Spam

Le flux de relayage



" will forward "

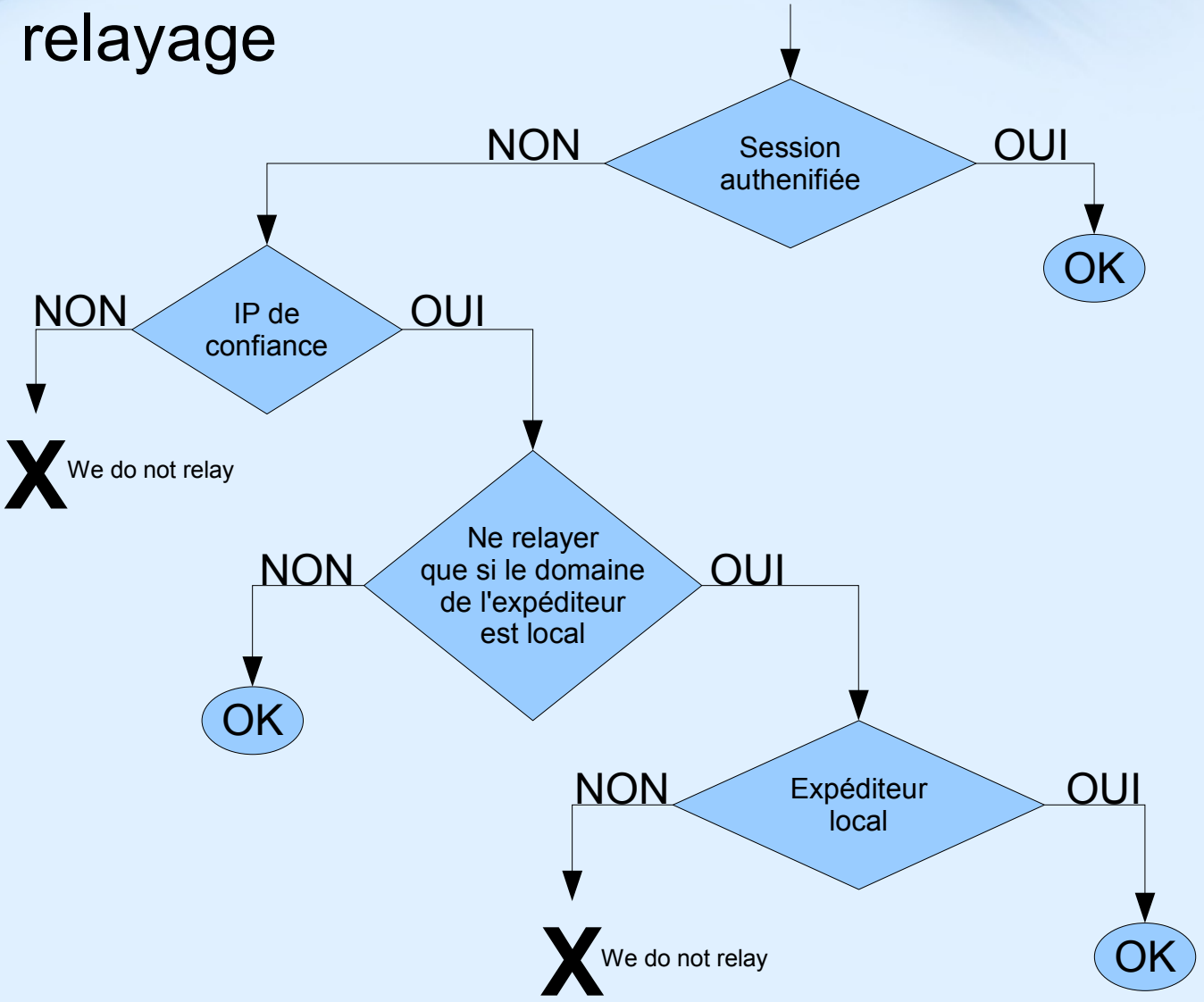
41.202.24.147 [0DF4] 15:48:46 Connected
41.202.24.147 [0DF4] 15:48:46 >>> 220 smtp.domaine.fr ESMTP IceWarp 9.3.2; Mon, 07 Sep 2009 15:48:...
41.202.24.147 [0DF4] 15:48:46 <<< EHLO User
41.202.24.147 [0DF4] 15:48:46 >>> 250-smtp.domaine.fr Hello User [41.202.24.147], pleased to meet you.
41.202.24.147 [0DF4] 15:48:47 <<< AUTH LOGIN
41.202.24.147 [0DF4] 15:48:47 >>> 334 VXNlcm5hbWU6
41.202.24.147 [0DF4] 15:48:47 <<< dGVzdA==
41.202.24.147 [0DF4] 15:48:47 >>> 334 UGFzc3dvcmQ6
41.202.24.147 [0DF4] 15:48:47 <<< dGVzdA==
41.202.24.147 [0DF4] 15:48:47 >>> 235 2.0.0 Authentication successful
41.202.24.147 [0DF4] 15:48:47 <<< RSET
41.202.24.147 [0DF4] 15:48:47 >>> 250 2.0.0 Reset state
41.202.24.147 [0DF4] 15:48:47 <<< MAIL FROM:<mr.luckywilliams.gh1@gmail.com>
41.202.24.147 [0DF4] 15:48:47 >>> 250 2.1.0 <mr.luckywilliams.gh1@gmail.com>... Sender ok
41.202.24.147 [0DF4] 15:48:47 <<< RCPT TO:<alwis@trc.gov.lk>
41.202.24.147 [0DF4] 15:48:47 >>> 250 2.1.5 <alwis@trc.gov.lk>... Recipient ok; **will forward**
41.202.24.147 [0DF4] 15:48:48 <<< RCPT TO:<aly@myownemail.com>

Site de décodage de base64 :
http://www.themanualpage.org/utils/base64.php
ou
http://home2.paulschou.net/tools/xlate/

" we do not relay "

222.170.127.111 [2314] 18:51:10 Connected
222.170.127.111 [2314] 18:51:10 >>> 220 mail.tassigny.darnis.com ESMTP IceWarp 10.0.0 (2009-09-21); Mon, 21 Sep 2009 18: ...
222.170.127.111 [2314] 18:51:10 <<< HELO mailer
222.170.127.111 [2314] 18:51:10 >>> 250 mail.tassigny.darnis.com Hello mailer [222.170.127.111], pleased to meet you.
222.170.127.111 [2314] 18:51:10 <<< MAIL FROM:<turbofan34@gmail.com>
222.170.127.111 [2314] 18:51:11 >>> 250 2.1.0 <turbofan34@gmail.com>... Sender ok
222.170.127.111 [2314] 18:51:11 <<< RCPT TO:<krack@greataccuratereliable.eu>
222.170.127.111 [2314] 18:51:11 >>> 550 5.7.1 <krack@greataccuratereliable.eu>... **we do not relay** <turbofan34@gmail.com>
222.170.127.111 [2314] 18:51:11 *** <turbofan34@gmail.com> <krack@greataccuratereliable.eu> 0 0 00:00:00 INCOMPLETE-SESSION
222.170.127.111 [2314] 18:51:11 Disconnected

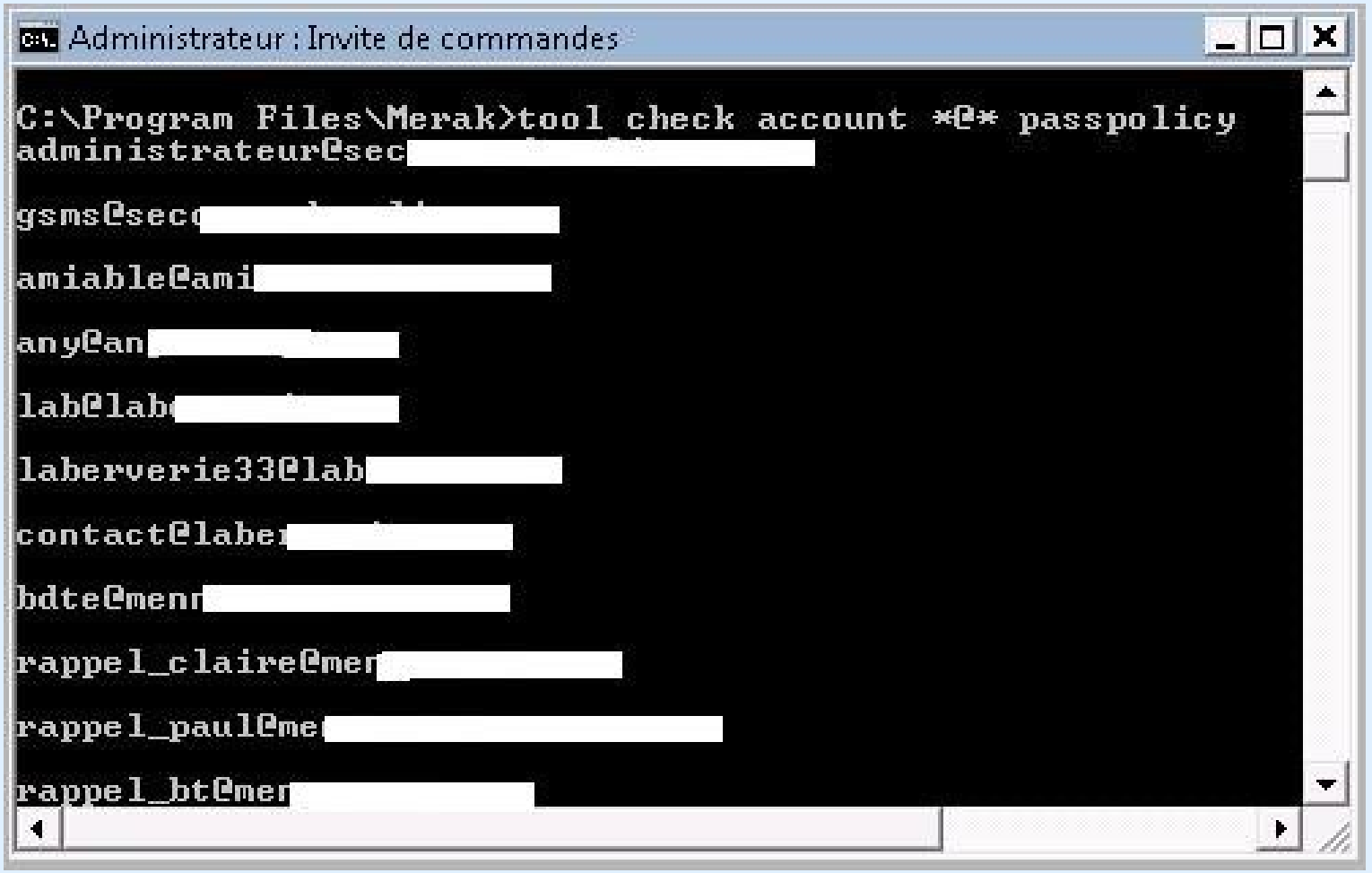
Contrôle du relayage



Un compte de domaine local doit être identifié

77.224.234.202 [0DA0] 10:12:47 Connected
77.224.234.202 [0DA0] 10:12:48 >>> 220 secosys.dnsalias.org ESMTP IceWarp 10.0.0 RC6; Sat, 26 Sep 2009 10:12:48 +0200
77.224.234.202 [0DA0] 10:12:48 <<< EHLO static-202-234-224-77.ipcom.comunitel.net
77.224.234.202 [0DA0] 10:12:48 >>> 250-secosys.dnsalias.org Hello static-202-234-224-77.ipcom.comunitel.net [77.224.234.202], pleased to me
77.224.234.202 [0DA0] 10:12:48 <<< MAIL FROM:<claudellecelinda@iwdemo.org> SIZE=6586
77.224.234.202 [0DA0] 10:12:48 >>> 250 2.1.0 <claudellecelinda@iwdemo.org>... Sender ok
77.224.234.202 [0DA0] 10:12:48 <<< RCPT TO:<claudellecelinda@iwdemo.org>
77.224.234.202 [0DA0] 10:12:48 >>> 550 5.7.1 <claudellecelinda@iwdemo.org> Access to <claudellecelinda@any78.org> **not allowed**
77.224.234.202 [0DA0] 10:12:48 <<< QUIT
77.224.234.202 [0DA0] 10:12:48 >>> 221 2.0.0 secosys.dnsalias.org closing connection
77.224.234.202 [0DA0] 10:12:48 *** <claudellecelinda@iwdemo.org> <claudellecelinda@iwdemo.org> 0 0 00:00:00 INCOMPLETE-SESSION
77.224.234.202 [0DA0] 10:12:48 Disconnected

Vérification des mots de passe



" SSL côté émetteur - client "

```
SYSTEM          [2028] 21:19:58 Client session Message id IDU60958 item 20091001211958438 8.tm$
SYSTEM          [2028] 21:19:58 Client session DNS query 'secosys.dnsalias.org' 0 (0) [OK - 2]
SYSTEM          [2028] 21:19:58 Client session Connecting to 'secosys.dnsalias.org'
78.114.121.81   [2028] 21:19:58 Client session Connected
78.114.121.81   [2028] 21:20:00 Client session <<< 220 secosys.dnsalias.org ESMTP IceWarp 10.0.0 RC6; Thu, 01 Oct 2009 21:19:55 +0200
78.114.121.81   [2028] 21:20:00 Client session >>> EHLO mail.tassigny.darnis.com
78.114.121.81   [2028] 21:20:00 Client session <<< 250 HELP
78.114.121.81   [2028] 21:20:00 Client session >>> STARTTLS
78.114.121.81   [2028] 21:20:00 Client session <<< 220 2.0.0 Ready to start TLS
78.114.121.81   [2028] 21:20:00 Client session SSL: Verified (0)
78.114.121.81   [2028] 21:20:00 Client session >>> EHLO mail.tassigny.darnis.com
78.114.121.81   [2028] 21:20:00 Client session <<< 250 HELP
78.114.121.81   [2028] 21:20:00 Client session >>> MAIL From:<bertrand@darnis.com> SIZE=632 TRANSID= <20091001211958438....>
78.114.121.81   [2028] 21:20:00 Client session <<< 250 2.1.0 <bertrand@darnis.com>... Sender ok
78.114.121.81   [2028] 21:20:00 Client session >>> RCPT To:<bertrand@secosys.dnsalias.org>
78.114.121.81   [2028] 21:20:00 Client session <<< 250 2.1.5 <bertrand@secosys.dnsalias.org>... Recipient ok
78.114.121.81   [2028] 21:20:00 Client session >>> DATA
78.114.121.81   [2028] 21:20:00 Client session <<< 354 Enter mail, end with "." on a line by itself
78.114.121.81   [2028] 21:20:00 Client session >>> 632 bytes (overall data transfer speed=73148148 b/s)
78.114.121.81   [2028] 21:20:14 Client session <<< 250 2.6.0 632 bytes received in 00:00:13; Message id IDU27656 accepted for delivery
78.114.121.81   [2028] 21:20:14 Client session *** <bertrand@darnis.com> <bertrand@secosys.dnsalias.org> 1 632 00:00:13 OK IDU60958
78.114.121.81   [2028] 21:20:14 Client session >>> QUIT
78.114.121.81   [2028] 21:20:14 Client session <<< 221 2.0.0 secosys.dnsalias.org closing connection
SYSTEM          [2028] 21:20:14 Client session Disconnected
```

SSL côté destinataire - serveur

193.251.36.243 [0B44] 21:19:54 Connected
193.251.36.243 [0B44] 21:19:55 >>> 220 secosys.dnsalias.org ESMTP IceWarp 10.0.0 RC6; Thu, 01 Oct 2009 21:19:55 +0200
193.251.36.243 [0B44] 21:19:55 <<< EHLO mail.tassigny.darnis.com
193.251.36.243 [0B44] 21:19:55 >>> 250-secosys.dnsalias.org Hello mail.tassigny.darnis.com [193.251.36.243], pleased to meet you.
193.251.36.243 [0B44] 21:19:55 <<< STARTTLS
193.251.36.243 [0B44] 21:19:55 >>> **220 2.0.0 Ready to start TLS**
193.251.36.243 [0B44] 21:19:55 <<< EHLO mail.tassigny.darnis.com
193.251.36.243 [0B44] 21:19:55 >>> 250-secosys.dnsalias.org Hello mail.tassigny.darnis.com [193.251.36.243], pleased to meet you.
193.251.36.243 [0B44] 21:19:55 <<< MAIL From:<bertrand@darnis.com> SIZE=632 TRANSID=<20091001211958438@darnis.com>
193.251.36.243 [0B44] 21:19:56 >>> 250 2.1.0 <bertrand@darnis.com>... Sender ok
193.251.36.243 [0B44] 21:19:56 <<< RCPT To:<bertrand@secosys.dnsalias.org>
193.251.36.243 [0B44] 21:19:56 >>> 250 2.1.5 <bertrand@secosys.dnsalias.org>... Recipient ok
193.251.36.243 [0B44] 21:19:56 <<< DATA
193.251.36.243 [0B44] 21:19:56 >>> 354 Enter mail, end with "." on a line by itself
193.251.36.243 [0B44] 21:19:56 <<< 637 bytes (overall data transfer speed=1919 b/s)
193.251.36.243 [0B44] 21:19:56 Start of mail processing
193.251.36.243 [0B44] 21:20:09 *** <bertrand@darnis.com> <bertrand@secosys.dnsalias.org> 1 632 00:00:13 OK IDU27656
193.251.36.243 [0B44] 21:20:09 >>> 250 2.6.0 632 bytes received in 00:00:13; Message id IDU27656 accepted for delivery
193.251.36.243 [0B44] 21:20:09 <<< QUIT
193.251.36.243 [0B44] 21:20:09 >>> 221 2.0.0 secosys.dnsalias.org closing connection
193.251.36.243 [0B44] 21:20:09 Disconnected

SSL sur la liaison IP (wireshark)

```
3.213  193.251.36.243  192.168.1.11  TCP    54055 > smtp [SYN] Seq=0 Win=65535 Len=0 MSS=1452
3.213  192.168.1.11  193.251.36.243  TCP    smtp > 54055 [SYN, ACK] Seq=0 Ack=1 Win=8192 Len=0 MSS=1460
3.292  193.251.36.243  192.168.1.11  TCP    54055 > smtp [ACK] Seq=1 Ack=1 Win=65535 Len=0
4.294  192.168.1.11  193.251.36.243  SMTP   S: 220 secosys.dnsalias.org ESMTP IceWarp 10.0.0 RC6; Thu, 01 Oct 2009 21:19:55 +0200
4.375  193.251.36.243  192.168.1.11  SMTP   C: EHLO mail.tassigny.darnis.com
4.377  192.168.1.11  193.251.36.243  SMTP   S: 250-secosys.dnsalias.org Hello mail.tassigny.darnis.com [193.251.36.243], pleased to...
4.461  193.251.36.243  192.168.1.11  SMTP   C: STARTTLS
4.462  192.168.1.11  193.251.36.243  SMTP   S: 220 2.0.0 Ready to start TLS
4.542  193.251.36.243  192.168.1.11  SSLv3  Client Hello
4.543  192.168.1.11  193.251.36.243  SSLv3  Server Hello, Certificate, Server Hello Done
4.678  193.251.36.243  192.168.1.11  SSLv3  Client Key Exchange, Change Cipher Spec, Encrypted Handshake Message
4.681  192.168.1.11  193.251.36.243  SSLv3  Change Cipher Spec, Encrypted Handshake Message
4.762  193.251.36.243  192.168.1.11  SSLv3  Application Data, Application Data
4.764  192.168.1.11  193.251.36.243  SSLv3  Application Data, Application Data
4.848  193.251.36.243  192.168.1.11  SSLv3  Application Data, Application Data
4.963  192.168.1.11  193.251.36.243  TCP    smtp > 54055 [ACK] Seq=1990 Ack=608 Win=64733 Len=0
5.041  192.168.1.11  193.251.36.243  SSLv3  Application Data, Application Data
5.123  193.251.36.243  192.168.1.11  SSLv3  Application Data, Application Data
5.126  192.168.1.11  193.251.36.243  SSLv3  Application Data, Application Data
5.208  193.251.36.243  192.168.1.11  SSLv3  Application Data, Application Data
5.209  192.168.1.11  193.251.36.243  SSLv3  Application Data, Application Data
5.301  193.251.36.243  192.168.1.11  SSLv3  Application Data, Application Data
5.463  192.168.1.11  193.251.36.243  TCP    smtp > 54055 [ACK] Seq=2356 Ack=1486 Win=65340 Len=0
5.542  193.251.36.243  192.168.1.11  SSLv3  Application Data, Application Data
5.663  192.168.1.11  193.251.36.243  TCP    smtp > 54055 [ACK] Seq=2356 Ack=1560 Win=65266 Len=0
8.558  192.168.1.11  193.251.36.243  TCP    57452 > smtp [SYN] Seq=0 Win=8192 Len=0 MSS=1460 WS=2
8.636  193.251.36.243  192.168.1.11  TCP    smtp > 57452 [SYN, ACK] Seq=0 Ack=1 Win=16384 Len=0 MSS=1452 WS=0
8.636  192.168.1.11  193.251.36.243  TCP    57452 > smtp [ACK] Seq=1 Ack=1 Win=66792 Len=0
8.637  192.168.1.11  193.251.36.243  TCP    57452 > smtp [FIN, ACK] Seq=1 Ack=1 Win=66792 Len=0
8.716  193.251.36.243  192.168.1.11  TCP    smtp > 57452 [ACK] Seq=1 Ack=2 Win=65535 Len=0
8.717  193.251.36.243  192.168.1.11  SMTP   S: 421 4.7.1 Intrusion prevention active for [78.114.121.81]
8.717  192.168.1.11  193.251.36.243  TCP    57452 > smtp [RST, ACK] Seq=2 Ack=60 Win=0 Len=0
8.718  193.251.36.243  192.168.1.11  TCP    smtp > 57452 [FIN, ACK] Seq=60 Ack=2 Win=65535 Len=0
```

Firefox

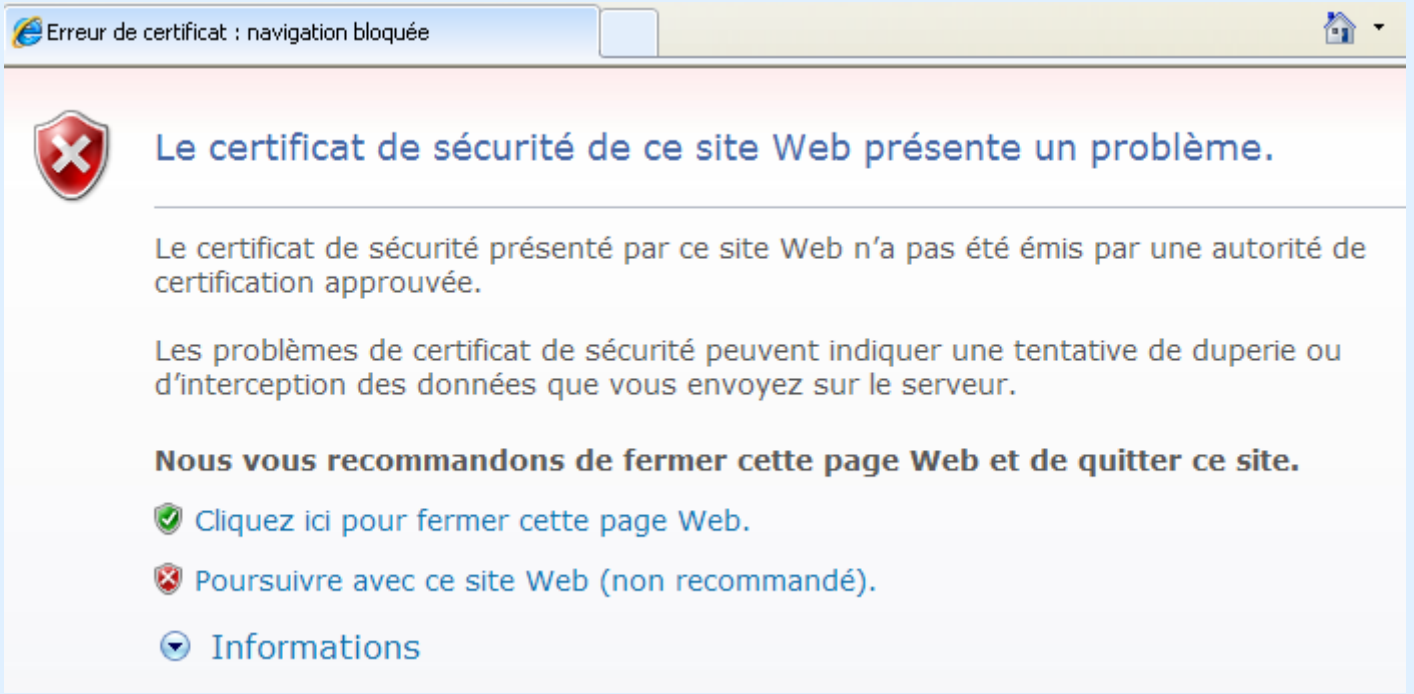
Le domaine ne correspond pas

Firefox

Le certificat est auto signé, expiré et le domaine ne correspond pas

Internet Explorer

Le domaine ne correspond pas ou le certificat n'est pas signé par une autorité reconnue



Le DNS

http://www.mxtoolbox.com/

a:darnis.com a

Type	Domain Name	IP Address	TTL
A	darnis.com	64.33.14.60	86400

Reported by **ns.dns7947.net** on Monday, January 01, 0001 at **3:22:54 AM**

mx:darnis.com mx

Pref	Hostname	IP Address	TTL		
5	mail.tassigny.darnis.com	193.251.36.243	86400	SMTP Test	Blacklist Check
10	mail.darnis.com	174.133.204.226	86400	SMTP Test	Blacklist Check

Reported by **ns29455.ovh.net** on Monday, January 01, 0001 at **3:46:31 AM**

txt:darnis.com txt

Type	Domain Name	TTL	Record
TXT	darnis.com	86400	k=rsa; n=1024; p=MIGfMA0GCSqGSIb3DQEBAQUAA4GNADCBiQKBgQD/YwD8hInT27Y5SBBF/cxA7cNwepsFi+LrpZoUWo8/NmY7YNJdxPgz9RBUW46OyfDAlSVvwic0BEsqgrAN4Ju8LXtVu97AUcDl3xscl/yh48gRo83R7dub5w2NVYvKtLm/9MholoVF+Spvb5YowHlMu4H3wXVbv7YGR6A7RrOzpQIDAQAB
TXT	darnis.com	86400	v=spf1 a mx ~all

Reported by **ns203149.ovh.net** on Monday, January 01, 0001 at **3:46:46 AM**

ptr:193.251.36.243 ptr

Domain Name	IP Address
lst-amand-152-33-5-243.w193-251.abo.wanadoo.fr	193.251.36.243

Reported by **mxtoolbox.com** on Tuesday, October 13, 2009 at 3:47:05 AM

Architecture