22.337218	192.168.1.25	192.168.1.25	HTTP	POST /roundcube/?_task=mail&_action=refresh HTTP/1.1 (application/x-www-form-urlencoded)
22.337243	192.168.1.25	192.168.1.25	TCP	80 → 49240 [ACK] Seq=1 Ack=771 Win=45312 Len=0 TSval=11570848 TSecr=11570848
22.345876	192.168.1.25	192.168.1.25	HTTP	HTTP/1.1 200 OK (text/plain)
22.345892	192.168.1.25	192.168.1.25	TCP	49240 → 80 [ACK] Seq=771 Ack=489 Win=44800 Len=0 TSval=11570850 TSecr=11570850
26.265817	192.168.1.25	192.168.1.25	HTTP	POST /roundcube/?_task=mail&_unlock=loading1475232887448&_lang=en&_framed=1 HTTP/1.1 (application/x-www-form-urlencoded)
26.302530	192.168.1.25	192.168.1.25	TCP	80 → 49240 [ACK] Seq=489 Ack=1783 Win=47360 Len=0 TSval=11571840 TSecr=11571830

Illustration 1: Échanges HTTP pour la consultation de la boîte de réception

69.537754	127.0.0.1	127.0.0.1	IMAP	Request: A00001 LOGIN utilisateur 1234
69.537763	127.0.0.1	127.0.0.1	TCP	143 → 51150 [ACK] Seq=1 Ack=32 Win=342 Len=0 TSval=11582648 TSecr=11582648
69.850843	127.0.0.1	127.0.0.1	IMAP	Response: A00000 OK [CAPABILITY IMAP4rev1 LITERAL+ SASL-IR LOGIN-REFERRALS ID ENABLE IDLE SORT SORT=DISPLAY THREAD=REFERENCES T
69.850857	127.0.0.1	127.0.0.1	TCP	51152 → 143 [ACK] Seq=39 Ack=358 Win=350 Len=0 TSval=11582727 TSecr=11582727
69.851021	127.0.0.1	127.0.0.1	IMAP	Request: A00002 NAMESPACE
69.851027	127.0.0.1	127.0.0.1	TCP	143 → 51152 [ACK] Seq=358 Ack=57 Win=342 Len=0 TSval=11582727 TSecr=11582727
69.852242	127.0.0.1	127.0.0.1	IMAP	Response: * NAMESPACE (("" ".")) NIL NIL
69.852569	127.0.0.1	127.0.0.1	IMAP	Request: A00003 LIST "" "*" RETURN (CHILDREN SUBSCRIBED STATUS (MESSAGES UNSEEN UIDVALIDITY UIDNEXT HIGHESTMODSEQ) SPECIAL-USE)
69.855747	127.0.0.1	127.0.0.1	IMAP	Response: A00001 OK [CAPABILITY IMAP4rev1 LITERAL+ SASL-IR LOGIN-REFERRALS ID ENABLE IDLE SORT SORT=DISPLAY THREAD=REFERENCES T
69.855760	127.0.0.1	127.0.0.1	TCP	51150 → 143 [ACK] Seq=32 Ack=358 Win=350 Len=0 TSval=11582728 TSecr=11582728
69.855916	127.0.0.1	127.0.0.1	IMAP	Request: A00004 NAMESPACE
69.855921	127.0.0.1	127.0.0.1	TCP	143 → 51150 [ACK] Seq=358 Ack=50 Win=342 Len=0 TSval=11582728 TSecr=11582728
69.855986	127.0.0.1	127.0.0.1	IMAP	Response: * NAMESPACE (("" ".")) NIL NIL
69.856178	127.0.0.1	127.0.0.1	IMAP	Request: A00005 LIST "" "*" RETURN (CHILDREN SUBSCRIBED STATUS (MESSAGES UNSEEN UIDVALIDITY UIDNEXT HIGHESTMODSEQ) SPECIAL-USE)
69.857038	127.0.0.1	127.0.0.1	IMAP	Response: * LIST (\Subscribed \HasNoChildren \Sent) "." Sent
69.890536	127.0.0.1	127.0.0.1	TCP	143 → 51152 [ACK] Seq=422 Ack=177 Win=342 Len=0 TSval=11582737 TSecr=11582727
69.894509	127.0.0.1	127.0.0.1	TCP	51150 → 143 [ACK] Seq=170 Ack=730 Win=359 Len=0 TSval=11582738 TSecr=11582728
70.257206	127.0.0.1	127.0.0.1	IMAP	Response: * LIST (\HasNoChildren) "." INBOX
70.294541	127.0.0.1	127.0.0.1	TCP	51152 → 143 [ACK] Seq=177 Ack=592 Win=359 Len=0 TSval=11582838 TSecr=11582828
74.306799	127.0.0.1	127.0.0.1	IMAP	Request: A00006 STATUS INBOX (MESSAGES UNSEEN UIDVALIDITY UIDNEXT HIGHESTMODSEQ)
74.306813	127.0.0.1	127.0.0.1	TCP	143 → 51152 [ACK] Seq=592 Ack=250 Win=342 Len=0 TSval=11583841 TSecr=11583841
74.307036	127.0.0.1	127.0.0.1	IMAP	Response: * STATUS INBOX (MESSAGES 7 UIDNEXT 8 UIDVALIDITY 1474293589 UNSEEN 6 HIGHESTMODSEQ 5)
74.307043	127.0.0.1	127.0.0.1	TCP	51152 → 143 [ACK] Seq=250 Ack=729 Win=367 Len=0 TSval=11583841 TSecr=11583841
74.307146	127.0.0.1	127.0.0.1	IMAP	Request: A00007 SELECT INBOX
74.307536	127.0.0.1	127.0.0.1	IMAP	Response: * FLAGS (\Answered \Flagged \Deleted \Seen \Draft)
74.307673	127.0.0.1	127.0.0.1	IMAP	Request: A00008 UID FETCH 7:* (UID FLAGS)
74.307799	127.0.0.1	127.0.0.1	IMAP	Response: * 7 FETCH (UID 7 FLAGS (\Recent))
74.307885	127.0.0.1	127.0.0.1	IMAP	Request: A00009 UID FETCH 7 (RFC822.SIZE RFC822.HEADER FLAGS)
74.346527	127.0.0.1	127.0.0.1	TCP	143 → 51152 [ACK] Seq=1180 Ack=359 Win=342 Len=0 TSval=11583851 TSecr=11583841
74.377327	127.0.0.1	127.0.0.1	IMAP	Response: * 7 FETCH (UID 7 RFC822.SIZE 685 FLAGS (\Recent) RFC822.HEADER {668}
74.414538	127.0.0.1	127.0.0.1	TCP	51152 → 143 [ACK] Seq=359 Ack=1970 Win=388 Len=0 TSval=11583868 TSecr=11583858
74.719447	127.0.0.1	127.0.0.1	IMAP	Request: A00010 STATUS INBOX (MESSAGES UNSEEN UIDVALIDITY UIDNEXT HIGHESTMODSEQ)
74.719680	127.0.0.1	127.0.0.1	IMAP	Response: * STATUS INBOX (MESSAGES 1 UIDNEXT 2 UIDVALIDITY 1474294051 UNSEEN 0 HIGHESTMODSEQ 3)
74.719692	127.0.0.1	127.0.0.1	TCP	51150 → 143 [ACK] Seq=243 Ack=867 Win=367 Len=0 TSval=11583944 TSecr=11583944

Illustration 2: Échanges IMAP lors de la récupération des mails par le client webmail

119.393...	127.0.0.1	127.0.0.1	TCP	37194 → 25 [SYN] Seq=0 Win=43690 Len=0 MSS=65495 SACK_PERM=1 TSval=11595112 TSecr=0 WS=12
119.393...	127.0.0.1	127.0.0.1	TCP	25 → 37194 [SYN, ACK] Seq=0 Ack=1 Win=43690 Len=0 MSS=65495 SACK_PERM=1 TSval=11595112 TSe
119.393...	127.0.0.1	127.0.0.1	TCP	37194 → 25 [ACK] Seq=1 Ack=1 Win=43776 Len=0 TSval=11595112 TSecr=11595112
119.845...	127.0.0.1	127.0.0.1	SMTP	S: 220 smtp.domaineel.rt ESMTP Postfix (Ubuntu)
119.845...	127.0.0.1	127.0.0.1	TCP	37194 → 25 [ACK] Seq=1 Ack=47 Win=43776 Len=0 TSval=11595225 TSecr=11595225
119.845...	127.0.0.1	127.0.0.1	SMTP	C: EHLO smtp.domaineel.rt
119.845...	127.0.0.1	127.0.0.1	TCP	25 → 37194 [ACK] Seq=47 Ack=25 Win=43776 Len=0 TSval=11595225 TSecr=11595225
119.845...	127.0.0.1	127.0.0.1	SMTP	S: 250 smtp.domaineel.rt | 250 PIPELINING | 250 SIZE 10240000 | 250 VRFY | 250 ETRN | 250 STARTTLS |
119.882...	127.0.0.1	127.0.0.1	TCP	37194 → 25 [ACK] Seq=25 Ack=209 Win=44800 Len=0 TSval=11595235 TSecr=11595225
130.013...	127.0.0.1	127.0.0.1	SMTP	C: AUTH PLAIN AGVkb3VhcmQARWNoMC9kZWx0QSUyMQ==
130.050...	127.0.0.1	127.0.0.1	TCP	25 → 37194 [ACK] Seq=209 Ack=70 Win=43776 Len=0 TSval=11597777 TSecr=11597767
130.087...	127.0.0.1	127.0.0.1	SMTP	S: 235 2.7.0 Authentication successful
130.087...	127.0.0.1	127.0.0.1	TCP	37194 → 25 [ACK] Seq=70 Ack=246 Win=44800 Len=0 TSval=11597786 TSecr=11597786
130.087...	127.0.0.1	127.0.0.1	SMTP	C: MAIL FROM:<edouard@smtp.domaineel.rt>
130.087...	127.0.0.1	127.0.0.1	TCP	25 → 37194 [ACK] Seq=246 Ack=109 Win=43776 Len=0 TSval=11597786 TSecr=11597786
130.087...	127.0.0.1	127.0.0.1	SMTP	S: 250 2.1.0 Ok
130.087...	127.0.0.1	127.0.0.1	SMTP	C: RCPT TO:<utilisateur@localhost>
130.126...	127.0.0.1	127.0.0.1	TCP	25 → 37194 [ACK] Seq=260 Ack=142 Win=43776 Len=0 TSval=11597796 TSecr=11597786
130.175...	127.0.0.1	127.0.0.1	SMTP	S: 250 2.1.5 Ok
130.176...	127.0.0.1	127.0.0.1	SMTP	C: DATA
130.176...	127.0.0.1	127.0.0.1	TCP	25 → 37194 [ACK] Seq=274 Ack=148 Win=43776 Len=0 TSval=11597808 TSecr=11597808
130.176...	127.0.0.1	127.0.0.1	SMTP	S: 354 End data with <CR><LF>.<CR><LF>
130.176...	127.0.0.1	127.0.0.1	SMTP	C: DATA fragment, 57 bytes
130.214...	127.0.0.1	127.0.0.1	TCP	25 → 37194 [ACK] Seq=311 Ack=205 Win=43776 Len=0 TSval=11597818 TSecr=11597808
130.214...	127.0.0.1	127.0.0.1	IMF	subject: Re: Test webmail, from: Edouard <edouard@smtp.domaineel.rt>, (text/plain)
130.214...	127.0.0.1	127.0.0.1	TCP	25 → 37194 [ACK] Seq=311 Ack=753 Win=44800 Len=0 TSval=11597818 TSecr=11597818
130.367...	127.0.0.1	127.0.0.1	SMTP	S: 250 2.0.0 Ok: queued as 5BE0578032B
130.367...	127.0.0.1	127.0.0.1	SMTP	C: QUIT
130.367...	127.0.0.1	127.0.0.1	TCP	25 → 37194 [ACK] Seq=348 Ack=759 Win=44800 Len=0 TSval=11597856 TSecr=11597856
130.367...	127.0.0.1	127.0.0.1	SMTP	S: 221 2.0.0 Bye
130.367...	127.0.0.1	127.0.0.1	TCP	25 → 37194 [FIN, ACK] Seq=363 Ack=759 Win=44800 Len=0 TSval=11597856 TSecr=11597856
130.368...	127.0.0.1	127.0.0.1	TCP	37194 → 25 [FIN, ACK] Seq=759 Ack=364 Win=44800 Len=0 TSval=11597856 TSecr=11597856
130.368...	127.0.0.1	127.0.0.1	TCP	25 → 37194 [ACK] Seq=364 Ack=760 Win=44800 Len=0 TSval=11597856 TSecr=11597856

Illustration 3: Échanges SMTP entre le client webmail et le serveur de destination lors de l'envoi d'un mail