💻 Mail Client | 🔍 DNS Resolver | 📧 Mail Server

📁 **smtp_send_mail.pcapng**

🔍 DNS Query — Frame 1 | 2021-01-20T13:43:44.749907Z

| | |
|---|---|
| 🔍 Name | mail.njrusmc.net |
| 🏷️ Type | A (1) (Host Address) |

✅ DNS Response — Frame 2 | 2021-01-20T13:43:44.775124Z

| | |
|---|---|
| 🔍 Name | mail.njrusmc.net |
| 🏷️ Type | A (1) (Host Address) |
| ⏱️ TTL | 10 (10 seconds) |
| 🌐 Address | 52.91.199.108 |
| ⏱️ Response Time | 25.217000 milliseconds |

🔗 TCP (SYN) — Frame 3 | 2021-01-20T13:43:44.785131Z

| | |
|---|---|
| 📤 Source Port | 57136 |
| 📥 Destination Port | 25 |

🔗 TCP (SYN, ACK) — Frame 4 | 2021-01-20T13:43:44.802979Z

| | |
|---|---|
| 📤 Source Port | 25 |
| 📥 Destination Port | 57136 |

🔗 TCP (ACK) — Frame 5 | 2021-01-20T13:43:44.803165Z

| | |
|---|---|
| 📤 Source Port | 57136 |
| 📥 Destination Port | 25 |

🤝 SMTP 220 Ready — 💡 Server is ready to accept mail — announces its hostname and software

| | |
|---|---|
| 🏷️ Response parameter | ip-172-31-91-117.ec2.internal ESMTP Postfix (Ubuntu) |

🔗 TCP (ACK) — Frame 7 | 2021-01-20T13:43:44.883868Z

| | |
|---|---|
| 📤 Source Port | 57136 |
| 📥 Destination Port | 25 |

🤝 SMTP ehlo — 💡 Client introduces itself to the mail server; EHLO enables ESMTP extensions

| | |
|---|---|
| 🏷️ Hostname | nicholass-mbp.fios-router.home |

🔗 TCP (ACK) — Frame 9 | 2021-01-20T13:43:44.90178Z

| | |
|---|---|
| 📤 Source Port | 25 |
| 📥 Destination Port | 57136 |

✅ SMTP 250 — Frame 10 | 2021-01-20T13:43:44.902892Z

| | |
|---|---|
| 📋 Response parameter | ip-172-31-91-117.ec2.internal |
| 📋 Response parameter | PIPELINING |
| 📋 Response parameter | SIZE 10240000 |
| 📋 Response parameter | VRFY |
| 📋 Response parameter | ETRN |
| 📋 Response parameter | STARTTLS |
| 📋 Response parameter | ENHANCEDSTATUSCODES |
| 📋 Response parameter | 8BITMIME |
| 📋 Response parameter | DSN |
| 📋 Response parameter | SMTPUTF8 |
| 📋 Response parameter | CHUNKING |

🔗 TCP (ACK) — Frame 11 | 2021-01-20T13:43:44.903024Z

| | |
|---|---|
| 📤 Source Port | 57136 |
| 📥 Destination Port | 25 |

📨 SMTP MAIL FROM — 💡 Envelope sender — the return path for bounces (may differ from the From: header)

| | |
|---|---|
| 📤 From | nick@njrusmc.net |

🔗 TCP (ACK) — Frame 13 | 2021-01-20T13:43:44.918395Z

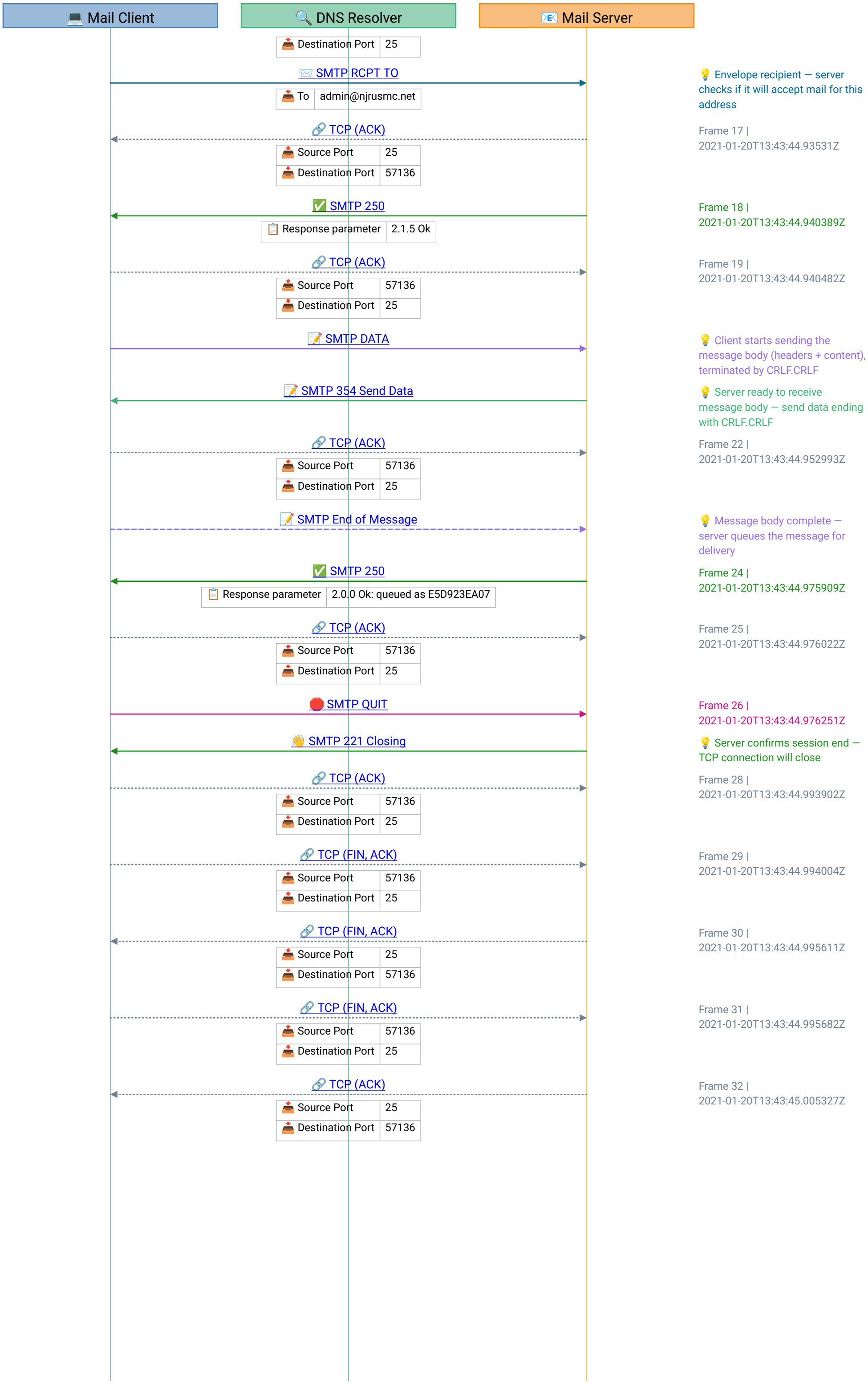
| | |
|---|---|
| 📤 Source Port | 25 |
| 📥 Destination Port | 57136 |

✅ SMTP 250 — Frame 14 | 2021-01-20T13:43:44.922801Z

| | |
|---|---|
| 📋 Response parameter | 2.1.0 Ok |

🔗 TCP (ACK) — Frame 15 | 2021-01-20T13:43:44.922888Z

| | |
|---|---|
| 📤 Source Port | 57136 |


Mail Client
DNS Resolver
Mail Server
Destination Port 25
SMTP RCPT TO
To admin@njrusmc.net
Envelope recipient — server checks if it will accept mail for this address
TCP (ACK)
Source Port 25
Destination Port 57136
Frame 17 | 2021-01-20T13:43:44.93531Z
SMTP 250
Response parameter 2.1.5 Ok
Frame 18 | 2021-01-20T13:43:44.940389Z
TCP (ACK)
Source Port 57136
Destination Port 25
Frame 19 | 2021-01-20T13:43:44.940482Z
SMTP DATA
Client starts sending the message body (headers + content), terminated by CRLF.CRLF
SMTP 354 Send Data
Server ready to receive message body — send data ending with CRLF.CRLF
TCP (ACK)
Source Port 57136
Destination Port 25
Frame 22 | 2021-01-20T13:43:44.952993Z
SMTP End of Message
Message body complete — server queues the message for delivery
SMTP 250
Response parameter 2.0.0 Ok: queued as E5D923EA07
Frame 24 | 2021-01-20T13:43:44.975909Z
TCP (ACK)
Source Port 57136
Destination Port 25
Frame 25 | 2021-01-20T13:43:44.976022Z
SMTP QUIT
Frame 26 | 2021-01-20T13:43:44.976251Z
SMTP 221 Closing
Server confirms session end — TCP connection will close
TCP (ACK)
Source Port 57136
Destination Port 25
Frame 28 | 2021-01-20T13:43:44.993902Z
TCP (FIN, ACK)
Source Port 57136
Destination Port 25
Frame 29 | 2021-01-20T13:43:44.994004Z
TCP (FIN, ACK)
Source Port 25
Destination Port 57136
Frame 30 | 2021-01-20T13:43:44.995611Z
TCP (FIN, ACK)
Source Port 57136
Destination Port 25
Frame 31 | 2021-01-20T13:43:44.995682Z
TCP (ACK)
Source Port 25
Destination Port 57136
Frame 32 | 2021-01-20T13:43:45.005327Z