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PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS ②
@Zar5-03 → /workspaces/desktop-tutorial (main) $ docker
tag      Create a tag TARGET_IMAGE that refers to SOURCE_IMAGE
top      Display the running processes of a container
unpause  Unpause all processes within one or more containers
update   Update configuration of one or more containers
wait    Block until one or more containers stop, then print their exit codes

Global Options:
  --config string          Location of client config files (default "/home/codespace/.docker")
  -c, --context string     Name of the context to use to connect to the daemon (overrides DOCKER_HOST env var and default context set with "docker context use")
  -D, --debug               Enable debug mode
  -H, --host string         Daemon socket to connect to
  -l, --log-level string   Set the logging level ("debug", "info", "warn", "error", "fatal") (default "info")
  --tls                     Use TLS; implied by --tlscacert
  --tlscacert string       Trust certs signed only by this CA (default "/home/codespace/.docker/ca.pem")
  --tlscert string          Path to TLS certificate file (default "/home/codespace/.docker/cert.pem")
  --tlskey string           Path to TLS key file (default "/home/codespace/.docker/key.pem")
  --tlsv1 verify            Use TLS and verify the remote
  -v, --version              Print version information and quit

Run 'docker COMMAND --help' for more information on a command.

For more help on how to use Docker, head to https://docs.docker.com/go/guides/
● @Zar5-03 → /workspaces/desktop-tutorial (main) $ docker -v
Docker version 28.5.1.1, build e18ab8ab2d267895a3e6e110cf6dd5c45f1d7
● @Zar5-03 → /workspaces/desktop-tutorial (main) $ sudo docker -d --name mailhog -p 1025:1025 -p 8025:8025 mailhog/mailhog
unknown shorthand flag: 'd' in -d

Usage: docker [OPTIONS] COMMAND [ARG...]

Run 'docker --help' for more information
● @Zar5-03 → /workspaces/desktop-tutorial (main) $ sudo docker run -d --name mailhog -p 1025:1025 -p 8025:8025 mailhog/mailhog
Unable to find image 'mailhog/mailhog:latest' locally
latest: Pulling from mailhog/mailhog
df20fa09351a: Pull complete
ed9686b2872e: Pull complete
a92cc75fd73: Pull complete
f17c8f1adafb: Pull complete
03954754c53a: Pull complete
60493946972a: Pull complete
368ee3bc1dbb: Pull complete
Digest: sha256:8d76a34fffa32a3661311944007a415332c4bb855657f4f6c57996405c009bea
Status: Downloaded newer image for mailhog/mailhog:latest
e9612eacb1dc747c6a7aff4e9686f0edaaf8ecca9a800e713c2b918e967c
● @Zar5-03 → /workspaces/desktop-tutorial (main) $ docker ps -a
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES
e06b2eacbdcc mailhog/mailhog "MailHog" 9 seconds ago Up 8 seconds 0.0.0.0:1025->1025/tcp, [::]:1025->1025/tcp, 0.0.0.0:8025->8025/tcp, [::]:8025->8025/tcp mailhog
● @Zar5-03 → /workspaces/desktop-tutorial (main) $ []

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EXPLORER ... PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS ②
DISKTOP-TUTORIAL [CODESPACES URL]
 README.md
smtp.pcap U
@Zar5-03 → /workspaces/desktop-tutorial (main) $ sudo apt install swaks
Setting up libidn11-2.12ubuntu1 (1.42-1ubuntu1) ...
Setting up socks (20240103.0-1) ...
Setting up libdigest-bubblebleable-perl (0.02-2.1) ...
Setting up libnet-ssleay-perl=1.94-1ubuntu14 ...
Setting up libnet-dns-perl (1.44-1ubuntu1) ...
Setting up libnet-dns-inet6-perl (2.20-1ubuntu1) ...
Setting up libnet-libidn-perl (1.12-1ubuntu14) ...
Setting up libnet-dns-sec-perl (1.23-1ubuntu14) ...
Processing triggers for libssl-bin (2.39-0ubuntu1.6) ...
Processing triggers for man-db (2.12.0-4ubuntu1.6) ...
● @Zar5-03 → /workspaces/desktop-tutorial (main) $ swaks --server 127.0.0.1 --port 1025 --from ti@example.com --to test@example.com --data "Subject: Codespace SWAKS Test\n\nPozdrav iz FISI!"
== Trying 127.0.0.1...
<- 220 mailhog.example ESMTP MailHog
-> EHLO codespaces-aacc4d
<- 250-Hello codespaces-aacc4d
<- 250-PIPELINING
<- 250 AUTH PLAIN
<- 354 Enter data with <CR><LF>,<CR><LF>
-> Subject: Codespace SWAKS Test
-> DATA
-> .
<- 250 OK: queued as -KIFTx0J54U4089YxhEg0TJM_BNNU2CfFuQjg@mailhog.example
-> QUIT
<- 221 Bye
--- Connection closed with remote host.
● @Zar5-03 → /workspaces/desktop-tutorial (main) $ history
 1 uname -a
 2 sudo apt-get update
 3 docker
 4 docker -v
 5 sudo docker -d --name mailhog -p 1025:1025 -p 8025:8025 mailhog/mailhog
 6 sudo docker run -d --name mailhog -p 1025:1025 -p 8025:8025 mailhog/mailhog
 7 docker ps -a
 8 sudo apt install tcpdump
 9 sudo tcpdump -i any tcp port 1025 -w smtp.pcap &
10 swaks --server 127.0.0.1 --port 1025 --from ti@example.com --to test@example.com --data "Subject: Codespace SWAKS Test\n\nPozdrav iz FISI!"
11 sudo apt install swaks
12 swaks --server 127.0.0.1 --port 1025 --from ti@example.com --to test@example.com --data "Subject: Codespace SWAKS Test\n\nPozdrav iz FISI!"
13 history
● @Zar5-03 → /workspaces/desktop-tutorial (main) $ []

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tcp.port == 1025												
No.	Time	Source	Destination	Protocol	Length	Info						
1	0.000000	177.0.0.1	127.0.0.1	TCP	80	43966 → 1025 [SYN] Seq=0 Win=65495 Len=0 MSS=5495 SACK_PERM Tsvl=1365708936 TSerr=0 WS=128						
2	0.000017	127.0.0.1	127.0.0.1	TCP	80	1025 → 43966 [SYN, ACK] Seq=0 Ack=1 Win=65493 Len=0 MSS=5495 SACK_PERM Tsvl=1365708936 TSerr=1365708936 WS=128						
3	0.000030	127.0.0.1	127.0.0.1	TCP	72	43966 → 1025 [ACK] Seq=1 Ack=1 Win=65523 Len=0 Tsvl=1365708936 TSerr=1365708936						
4	0.000033	172.17.0.1	172.17.0.2	TCP	80	44822 → 1025 [SYN] Seq=0 Win=64249 Len=0 MSS=1468 SACK_PERM Tsvl=681401057 TSerr=0 WS=128						
5	0.000050	172.17.0.1	172.17.0.2	TCP	80	1025 → 44822 [SYN, ACK] Seq=1 Ack=1 Win=65336 Len=0 MSS=1468 SACK_PERM Tsvl=681401057 TSerr=681401057 WS=128						
6	0.000054	172.17.0.1	172.17.0.2	TCP	72	44822 → 1025 [ACK] Seq=1 Ack=1 Win=65336 Len=0 Tsvl=681401057 TSerr=681401057 WS=128						
7	0.000058	172.17.0.1	172.17.0.2	TCP	80	1025 → 44822 [SYN, ACK] Seq=1 Ack=1 Win=65336 Len=0 MSS=1468 SACK_PERM Tsvl=105747232 TSerr=681401057 WS=128						
8	0.000062	172.17.0.1	172.17.0.2	TCP	72	44822 → 1025 [ACK] Seq=1 Ack=1 Win=64256 Len=0 Tsvl=681401057 TSerr=105747232 TSerr=681401057 WS=128						
9	0.000072	172.17.0.1	172.17.0.2	TCP	72	1025 → 44822 [ACK] Seq=1 Ack=1 Win=64256 Len=0 Tsvl=681401057 TSerr=105747232						
10	0.000074	172.17.0.1	172.17.0.2	TCP	80	1025 → 44822 [ACK] Seq=1 Ack=1 Win=64256 Len=0 Tsvl=105747232 TSerr=681401057						
11	0.000075	172.17.0.1	172.17.0.2	TCP	72	1025 → 44822 [ACK] Seq=1 Ack=1 Win=64256 Len=0 Tsvl=105747232 TSerr=681401057						
12	0.000076	172.17.0.1	172.17.0.2	TCP	72	1025 → 44822 [ACK] Seq=1 Ack=1 Win=64256 Len=0 Tsvl=105747232 TSerr=681401057						
13	0.0000769	172.17.0.1	172.17.0.2	TCP	72	1025 → 44822 [ACK] Seq=1 Ack=1 Win=64256 Len=0 Tsvl=105747232 TSerr=681401057						
14	0.0000839	172.0.0.1	127.0.0.1	TCP	187	1025 → 43966 [PSH, ACK] Seq=1 Ack=1 Win=65523 Len=35 Tsvl=1365708936 TSerr=1365708936						
15	0.0000845	172.0.0.1	127.0.0.1	TCP	72	43966 → 1025 [ACK] Seq=1 Ack=36 Win=65536 Len=0 Tsvl=1365708936 TSerr=1365708936						
16	0.0001317	127.0.0.1	127.0.0.1	TCP	68	43966 → 1025 [PSH, ACK] Seq=1 Ack=36 Win=65536 Len=24 Tsvl=1365708936 TSerr=1365708936						
17	0.0001326	127.0.0.1	127.0.0.1	TCP	72	43966 → 1025 [PSH, ACK] Seq=1 Ack=36 Win=65536 Len=24 Tsvl=1365708936 TSerr=1365708936						
18	0.001348	172.17.0.1	172.17.0.2	TCP	88	1025 → 44822 [PSH, ACK] Seq=1 Ack=36 Win=65280 Len=16 Tsvl=105747232 TSerr=681401058						
19	0.001350	172.17.0.1	172.17.0.2	TCP	88	1025 → 44822 [PSH, ACK] Seq=1 Ack=36 Win=65280 Len=16 Tsvl=105747232 TSerr=681401058						
20	0.001363	172.17.0.1	172.17.0.2	TCP	88	1025 → 44822 [PSH, ACK] Seq=1 Ack=36 Win=65280 Len=16 Tsvl=105747232 TSerr=681401058						
21	0.001366	172.17.0.1	172.17.0.2	TCP	72	1025 → 44822 [ACK] Seq=36 Ack=25 Win=65280 Len=0 Tsvl=105747232 TSerr=681401058						
22	0.001429	172.17.0.1	172.17.0.2	TCP	72	1025 → 44822 [PSH, ACK] Seq=36 Ack=25 Win=65280 Len=29 Tsvl=105747232 TSerr=681401058						
23	0.001433	172.17.0.1	172.17.0.2	TCP	72	1025 → 44822 [PSH, ACK] Seq=36 Ack=25 Win=65280 Len=29 Tsvl=105747232 TSerr=681401058						
24	0.001446	172.17.0.1	172.17.0.2	TCP	72	1025 → 44822 [PSH, ACK] Seq=36 Ack=25 Win=65280 Len=29 Tsvl=105747232 TSerr=681401058						
25	0.001448	172.17.0.1	172.17.0.2	TCP	72	1025 → 44822 [PSH, ACK] Seq=36 Ack=25 Win=65280 Len=29 Tsvl=105747232 TSerr=681401058						
26	0.001456	172.17.0.1	172.17.0.2	TCP	72	1025 → 44822 [PSH, ACK] Seq=36 Ack=25 Win=65280 Len=29 Tsvl=105747232 TSerr=681401058						
27	0.001457	172.17.0.1	172.17.0.2	TCP	72	1025 → 44822 [PSH, ACK] Seq=36 Ack=25 Win=65280 Len=29 Tsvl=105747232 TSerr=681401058						
28	0.001470	172.17.0.1	172.17.0.2	TCP	72	1025 → 44822 [PSH, ACK] Seq=36 Ack=25 Win=65280 Len=29 Tsvl=105747232 TSerr=681401058						
29	0.001472	172.17.0.1	172.17.0.2	TCP	72	1025 → 44822 [PSH, ACK] Seq=36 Ack=25 Win=65280 Len=29 Tsvl=105747232 TSerr=681401058						
30	0.001853	172.17.0.1	172.17.0.2	TCP	88	1025 → 44822 [PSH, ACK] Seq=65 Ack=25 Win=65280 Len=16 Tsvl=105747232 TSerr=681401058						
31	0.001855	172.17.0.1	172.17.0.2	TCP	88	1025 → 44822 [PSH, ACK] Seq=65 Ack=25 Win=65280 Len=16 Tsvl=105747232 TSerr=681401058						
32	0.002018	172.17.0.1	172.17.0.2	TCP	88	1025 → 44822 [PSH, ACK] Seq=65 Ack=25 Win=65280 Len=16 Tsvl=105747232 TSerr=681401058						
33	0.002030	172.17.0.1	172.17.0.2	TCP	88	1025 → 44822 [PSH, ACK] Seq=65 Ack=25 Win=65280 Len=16 Tsvl=105747232 TSerr=681401058						
34	0.002415	172.17.0.1	172.17.0.2	TCP	88	1025 → 44822 [PSH, ACK] Seq=65 Ack=25 Win=65280 Len=16 Tsvl=105747232 TSerr=681401058						
35	0.002418	172.17.0.1	172.17.0.2	TCP	88	1025 → 44822 [PSH, ACK] Seq=65 Ack=25 Win=65280 Len=16 Tsvl=105747232 TSerr=681401058						
36	0.002419	172.17.0.1	172.17.0.2	TCP	88	1025 → 44822 [PSH, ACK] Seq=65 Ack=25 Win=65280 Len=16 Tsvl=105747232 TSerr=681401058						
37	0.002419	172.17.0.1	172.17.0.2	TCP	88	1025 → 44822 [PSH, ACK] Seq=65 Ack=25 Win=65280 Len=16 Tsvl=105747232 TSerr=681401058						
38	0.002419	172.17.0.1	172.17.0.2	TCP	88	1025 → 44822 [PSH, ACK] Seq=65 Ack=25 Win=65280 Len=16 Tsvl=105747232 TSerr=681401058						
39	0.002418	172.17.0.1	172.17.0.2	TCP	88	1025 → 44822 [PSH, ACK] Seq=65 Ack=25 Win=65280 Len=16 Tsvl=105747232 TSerr=681401058						

### tcp.stream eq 1

No.	Time	Source	Destination	Protocol	Info	tcp.stream eq 1
4	0.0000393	172.17.0.1	172.17.0.2	TCP	220 mailhog@example ESMTP MailHog	
5	0.000395	172.17.0.1	172.17.0.2	TCP	EHLO codespaces-aacca4	
6	0.000414	172.17.0.2	172.17.0.1	TCP	250-Hello codespaces-aacca4	
7	0.000418	172.17.0.2	172.17.0.1	TCP	250-PIPELINING	
8	0.000426	172.17.0.1	172.17.0.2	TCP	250 AUTH PLAIN	
9	0.000427	172.17.0.1	172.17.0.2	TCP	MAIL FROM:<ti@example.com>	
10	0.000747	172.17.0.2	172.17.0.1	TCP	250 Sender ti@example.com ok	
11	0.000753	172.17.0.2	172.17.0.1	TCP	RCPT TO:<test@example.com>	
12	0.000767	172.17.0.1	172.17.0.2	TCP	250 Recipient test@example.com ok	
13	0.000769	172.17.0.1	172.17.0.2	TCP	DATA	
18	0.001348	172.17.0.1	172.17.0.2	TCP	354 End data with <CR><LF>.<CR><LF>	
19	0.001350	172.17.0.1	172.17.0.2	TCP	Subject: Codespace SWAKS Test	
20	0.001363	172.17.0.1	172.17.0.2	TCP	Pozdrav iz FIS!	
21	0.001366	172.17.0.1	172.17.0.2	TCP	.	
22	0.001429	172.17.0.1	172.17.0.2	TCP	250 Ok: queued as -KIFTx0Jh54U40RMYvhEg90TjPM_bNNiu2C8Fu3Qig=@mailhog.example	
23	0.001433	172.17.0.1	172.17.0.2	TCP	QUIT	
32	0.001853	172.17.0.1	172.17.0.2	TCP	221 Bye	

Frame 10: Packet, 107 bytes on wire (856 bits), 107 bytes captured (856 bits)

Linux cooked capture v2

Internet Protocol Version 4, Src: 172.17.0.2, Dst: 172.17.0.1

Transmission Control Protocol, Src Port: 1025, Dst Port: 44822, Seq: 1

Data (35 bytes)

```

@Zans-03 → /workspaces/desktop-tutorial (main) $ docker run -d --name postfix587 -p 587:587 -e ALLOWED_SENDER_DOMAINS="localdomain" -e POSTFIX_myhostname=postfix.local boky/postfix
Unable to find image 'boky/postfix:latest' locally
latest: Pulling from boky/postfix:latest
af302e5c37e9: Pull complete
fd88f39fc50e: Pull complete
d0bb0b06ddde: Pull complete
0ba5e896a0cd4: Pull complete
f31384ad5f08: Pull complete
f518acd98a942: Pull complete
dd4d8f9766e0: Pull complete
a43fc3bfe47d: Pull complete
78ee785d01db: Pull complete
ea7f414a812: Pull complete
4f4fb700ef54: Pull complete
Digest: sha256:f3f247rf4d528b969e2693ac120d5a5b5db7fe61f4595c49d438b9ba1822999
Status: Downloaded newer image for boky/postfix:latest
23416b2ce698a265a647ff1ff5324fae87534389253b7f30b190eb8e0274a87
@Zans-03 → /workspaces/desktop-tutorial (main) $ docker ps -a
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES
23416b2ce698 boky/postfix "/bin/sh -c /scripts..." 4 seconds ago Up 3 seconds (health: starting) 0.0.0.0:587->587/tcp, [:]:587->587/tcp
e66b2eac1d1b mailhog/mailhog "MailHog" 9 minutes ago Up 8 minutes 0.0.0.0:1025->1025/tcp, [:]:1025->1025/tcp, 0.0.0.0:8025->8025/tcp, [:]:8025->8025/tcp
@Zans-03 → /workspaces/desktop-tutorial (main) $ []

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```

@Zans-03 → /workspaces/desktop-tutorial (main) $ sudo tcpdump -i any tcp port 587 -w smtpssl.pcap &
libliverbs: Warning: couldn't open config directory '/etc/libliverbs.d'.
tcpdump: data link type LINUX_SLL2
@Zans-03 → /workspaces/desktop-tutorial (main) $ tcpdump: listening on any, link-type LINUX_SLL2 (Linux cooked v2), snapshot length 262144 bytes
swaks -server 127.0.0.1 -port 587 --tls --from test@localdomain --to demo@localdomain --header 'Subject: STARTTLS test' --body 'Pozdrav prek TLS!'
== Trying 127.0.0.1:587...
== Connected to 127.0.0.1.
<- 228 postfix.local ESMTP Postfix (Debian/GNU)
-> EHLO codespaces-aacc4
<- 250-postfix.local
<- 250-PIPELINING
<- 250-SIZE
<- 250-VRFY
<- 250-ETRN
<- 250-STARTTLS
<- 250-ENHANCEDSTATUSCODES
<- 250-8BITMIME
<- 250-DSN
<- 250-SMTPUTF8
<- 250 CHUNKING
-> STARTTLS
<- 228 2.0.0 Ready to start TLS
== TLS started with cipher TLSv1.3:TLS_AES_256_GCM_SHA384:256
== TIS client certificate not requested and not sent
== TIS no client certificate set
== TLS peer[0] subject=/CN=localhost
== commonName=[localhost], subjectAltName=[DNS:localhost] notAfter=[2035-01-14T23:01:22Z]
== TLS peer certificate failed CA verification (self-signed certificate), failed host verification (using host 127.0.0.1 to verify)
-> EHLO codespaces-aacc4
<- 250-postfix.local
<- 250-PIPELINING
<- 250-SIZE
<- 250-VRFY
<- 250-ETRN
<- 250-ENHANCEDSTATUSCODES
<- 250-8BITMIME
<- 250-DSN
<- 250-SMTPUTF8
<- 250 CHUNKING
-> MAIL FROM:<test@localdomain>
<- 250 2.1.0 Ok
-> RCPT TO:<demo@localdomain>
<- 504 5.5.2 demo@localdomain: Recipient address rejected: need fully-qualified address
-> QUIT
<- 221 2.0.0 Bye
== Connection closed with remote host.
@Zans-03 → /workspaces/desktop-tutorial (main) $ sudo killall tcpdump
@Zans-03 → /workspaces/desktop-tutorial (main) $ []

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```

@Zans-03 → /WORKspaces/desktop-tutorial (main) $ sudo pkill tcpdump
@Zans-03 → /workspaces/desktop-tutorial (main) $ history
 1  uname -a
 2  sudo apt-get update
 3  docker
 4  docker -v
 5  sudo docker -d --name mailhog -p 1025:1025 -p 8025:8025 mailhog/mailhog
 6  sudo docker run -d --name mailhog -p 1025:1025 -p 8025:8025 mailhog/mailhog
 7  docker ps -a
 8  sudo apt install tcpdump
 9  sudo tcpdump -i any tcp port 1025 -w smtp.pcap &
10  swaks --server 127.0.0.1 --port 1025 --from ti@example.com --to test@example.com --data "Subject: Codespace SWAKS Test\n\nPozdrav iz FIS!"
11  sudo apt install swaks
12  swaks -server 127.0.0.1 --port 1025 --from ti@example.com --to test@example.com --data "Subject: Codespace SWAKS Test\n\nPozdrav iz FIS!"
13  history
14  sudo pkill tcpdump
15  docker run -d --name postfix587 -p 587:587 -e ALLOWED_SENDER_DOMAINS="localdomain" -e POSTFIX_myhostname=postfix.local boky/postfix
16  docker ps -a
17  sudo tcpdump -i any tcp port 587 -w smtpssl.pcap &
18  swaks --server 127.0.0.1 --port 587 --tls --from test@localdomain --to demo@localdomain --header 'Subject: STARTTLS test' --body 'Pozdrav prek TLS!'
19  sudo pkill tcpdump
20  history
@Zans-03 → /workspaces/desktop-tutorial (main) $ []

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```

tcp.port == 587
No. Time Source Destination Protocol Length Info
1 0.000000 127.0.0.1 127.0.0.1 TCP 89 47448 + 587 [SYN] Seq=0 Win=65495 SACK_PERM Tsval=1366146517 Tsecr=>0 WS=128
2 0.000012 127.0.0.1 127.0.0.1 TCP 89 587 + 47448 [SYN] Seq=0 ACK=1 Win=65483 Len=0 MSS=65495 SACK_PERM Tsval=1366146517 Tsecr=>0 WS=128
3 0.000021 127.0.0.1 127.0.0.1 TCP 72 47448 + 587 [ACK] Seq=1 Ack=1 Win=65536 Len=0 Tsval=1366146517 Tsecr=>0 WS=128
4 0.000036 172.17.0.1 172.17.0.3 TCP 89 56880 + 587 [SYN] Seq=0 Win=64240 Len=0 MSS=1460 SACK_PERM Tsval=144619997 Tsecr=>0 WS=128
5 0.000037 172.17.0.1 172.17.0.3 TCP 89 [TCP Retransmission] 56880 + 587 [SYN] Seq=0 Win=64240 Len=0 MSS=1460 SACK_PERM Tsval=144619997 Tsecr=>0 WS=128
6 0.000055 172.17.0.3 172.17.0.1 TCP 89 587 + 56880 [SYN] Seq=0 ACK=1 Win=65168 Len=0 MSS=1468 SACK_PERM Tsval=144619997 Tsecr=>0 WS=128
7 0.000059 172.17.0.3 172.17.0.1 TCP 89 [TCP Retransmission] 587 + 56880 [SYN] Seq=0 ACK=1 Win=65168 Len=0 MSS=1460 SACK_PERM Tsval=2478180530 Tsecr=>144619997 WS=128
8 0.000067 172.17.0.3 172.17.0.1 TCP 72 56880 + 587 [ACK] Seq=1 Ack=1 Win=64256 Len=0 Tsval=144619997 Tsecr=>2478180530
9 0.000074 172.17.0.3 172.17.0.1 TCP 72 587 + 47448 [ACK] Seq=1 Ack=1 Win=65536 Len=0 Tsval=144619997 Tsecr=>2478180530
10 0.000173 172.17.0.3 172.17.0.1 SMTP 118 S: 220 postfix.local ESMTP Postfix (Debian/GNU)
11 0.000178 172.17.0.3 172.17.0.1 TCP 118 [TCP Retransmission] 587 + 56880 [PSH, ACK] Seq=1 Ack=1 Win=65280 Len=46 Tsval=2478180548 Tsecr=>144619997
12 0.000178 172.17.0.1 172.17.0.3 TCP 72 56880 + 587 [ACK] Seq=1 Ack=1 Win=64256 Len=0 Tsval=2478180548
13 0.000178 172.17.0.1 172.17.0.3 TCP 72 [TCP Dup ACK 12@1] 56880 + 587 [ACK] Seq=1 Ack=7 Win=64256 Len=0 Tsval=144620015 Tsecr=>2478180548
14 0.0001794 127.0.0.1 127.0.0.1 SMTP 118 S: 220 postfix.local ESMTP Postfix (Debian/GNU)
15 0.0017601 127.0.0.1 127.0.0.1 TCP 72 47448 + 587 [ACK] Seq=1 Ack=47 Win=65536 Len=0 Tsval=1366146535
16 0.0018067 127.0.0.1 127.0.0.1 TCP 72 587 + 47448 [ACK] Seq=1 Ack=47 Win=65536 Len=0 Tsval=1366146535
17 0.0018067 127.0.0.1 127.0.0.1 TCP 72 587 + 47448 [ACK] Seq=1 Ack=47 Win=65536 Len=0 Tsval=1366146535 Tsecr=>1366146535
18 0.0018066 172.17.0.1 172.17.0.3 SMTP 96 C: EHLO cdespacez-aacca4
19 0.0018069 172.17.0.1 172.17.0.3 TCP 96 [TCP Retransmission] 56880 + 587 [PSH, ACK] Seq=1 Ack=47 Win=64256 Len=24 Tsval=144620015 Tsecr=>2478180548
20 0.0018078 172.17.0.3 172.17.0.1 TCP 72 587 + 56880 [ACK] Seq=47+25 Win=65280 Len=0 Tsval=2478180548 Tsecr=>144620015
21 0.0018081 172.17.0.3 172.17.0.1 TCP 72 [TCP Dup ACK 20@1] 587 + 56880 [ACK] Seq=47+25 Win=65280 Len=0 Tsval=2478180548 Tsecr=>144620015
22 0.0018129 172.17.0.3 172.17.0.1 SMTP 227 S: 250-postfix.local PIPELINING SIZE VRFLY | ETRN | STARTTLS | ENHANCEDSTATUSCODES | 8BITMIME | DSN | SMTPUTF8 | CHUNKING
23 0.0018132 172.17.0.3 172.17.0.1 TCP 227 [TCP Retransmission] 56880 + 587 [PSH, ACK] Seq=47+25 Win=65280 Len=151 Tsval=2478180548 Tsecr=>144620015
24 0.0018135 127.0.0.1 127.0.0.1 SMTP 227 S: 220 postfix.local PIPELINING | SIZE | VRFLY | ETRN | STARTTLS | ENHANCEDSTATUSCODES | 8BITMIME | DSN | SMTPUTF8 | CHUNKING
25 0.0018135 127.0.0.1 127.0.0.1 SMTP 82 C: STARTTLS
26 0.0018338 172.17.0.1 172.17.0.3 SMTP 82 C: STARTTLS
27 0.0018352 172.17.0.1 172.17.0.3 TCP 82 [TCP Retransmission] 56880 + 587 [PSH, ACK] Seq=25 Ack=202 Win=64128 Len=0 Tsval=144620015 Tsecr=>2478180548
28 0.0018415 172.17.0.3 172.17.0.1 SMTP 102 S: 220 2.0.0 Ready to start TLS

Frame 4: Packet, 80 bytes on wire (640 bits), 80 bytes captured (640 bits)
    Internet cooked cookie v2
    Internet Protocol Version 4, Src: 172.17.0.1, Dst: 172.17.0.3
    Transmission Control Protocol, Src Port: 56880, Dst Port: 587, Seq: 0, Len: 0

```

The screenshot displays a Wireshark session titled "stream eq 0". The packet list pane shows 73 total packets, with the 73rd packet selected. The selected packet's details and bytes panes are shown below. The bytes pane highlights several fields in orange, including the source and destination IP addresses, port numbers, and specific protocol headers like TCP flags and TLSv1.2 handshake messages.

## Refleksija:

Pri nešifriranem lahko napadalec vidi celotno vsebino eposte, med tem ko pri sifriranem tega nemore (kot je vidno v praksi zgoraj)

S preverjanjem vemo, da je javni ključ res pravilen in pripada pravi osebi.

PGP bi uporabili za eposto, signal pa za pogovor v realtime

Menim da bi moralo biti privzeto, da ne pride do napadov, vohunjena sporocil, ipd.