

# INFRASTRUCTURE ET RÉSEAU

## POP 3



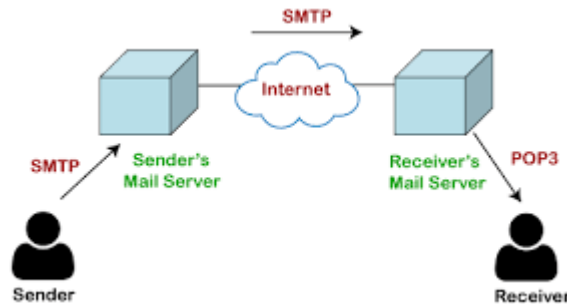
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# 1. POP3 Protocol

« Post Office Protocol 3, or POP3, is the most commonly used protocol for receiving email over the internet. This standard protocol, which most email servers and their clients support, is used to pick-up emails from a remote server. Discover the POP3 protocol, find all the commands to pick-up the mail.»



## 1.1 POP 3 protocol commands

Command	Description	Example
USER [username]	1st login command	USER Stan +OK Please enter a password
PASS [password]	2nd login command	PASS SeCrEt +OK valid logon
QUIT	Logs out and saves any changes	QUIT +OK Bye-bye.
STAT	Returns total number of messages and total size	STAT +OK 2 320
LIST	Lists all messages: Returns indexed list of messages, along with size	LIST +OK 2 messages (320 octets) 1 120 2 200 ...

		LIST 2 +OK 2 200
RETR [message index]	Retrieves the whole message	RETR 1 +OK 120 octets follow. ***
DELE [message index]	Deletes the specified message	DELE 2 +OK message deleted
TOP [message index] [num lines to return]	Returns the headers and top X lines of a message by message index (from LIST). Can be used to display the 1 <sup>st</sup> few lines of a message. Headers are always returned.	TOP 2 1 +OK < MIME-Version: 1.0X- Mailer: MailBee.NET 6.5.2.236To: user@company.comFrom ..., etc.>***
UIDL [message index]	Returns a unique ID for a message index (from LIST). This ID is used by POP3 clients to identify previously downloaded messages. A client would connect, pull a LIST of messages, then pull a UIDL for each message index listed. If the UIDL had been downloaded prior, message can be skipped. If UIDL has not yet been downloaded, use the RETR command to download this new message.	UIDL 1 +OK 1 6866N
NOOP	The POP3 server does nothing, it merely replies with a positive response.	NOOP +OK
RSET	Undelete the message if any marked for deletion	RSET +OK maildrop has 2 messages (320 octets)

Source: [https://kb.datamotion.com/?ht\\_kb=how-to-utilize-pop3-protocol-to-access-datamotion-securemail-and-direct-accounts](https://kb.datamotion.com/?ht_kb=how-to-utilize-pop3-protocol-to-access-datamotion-securemail-and-direct-accounts)

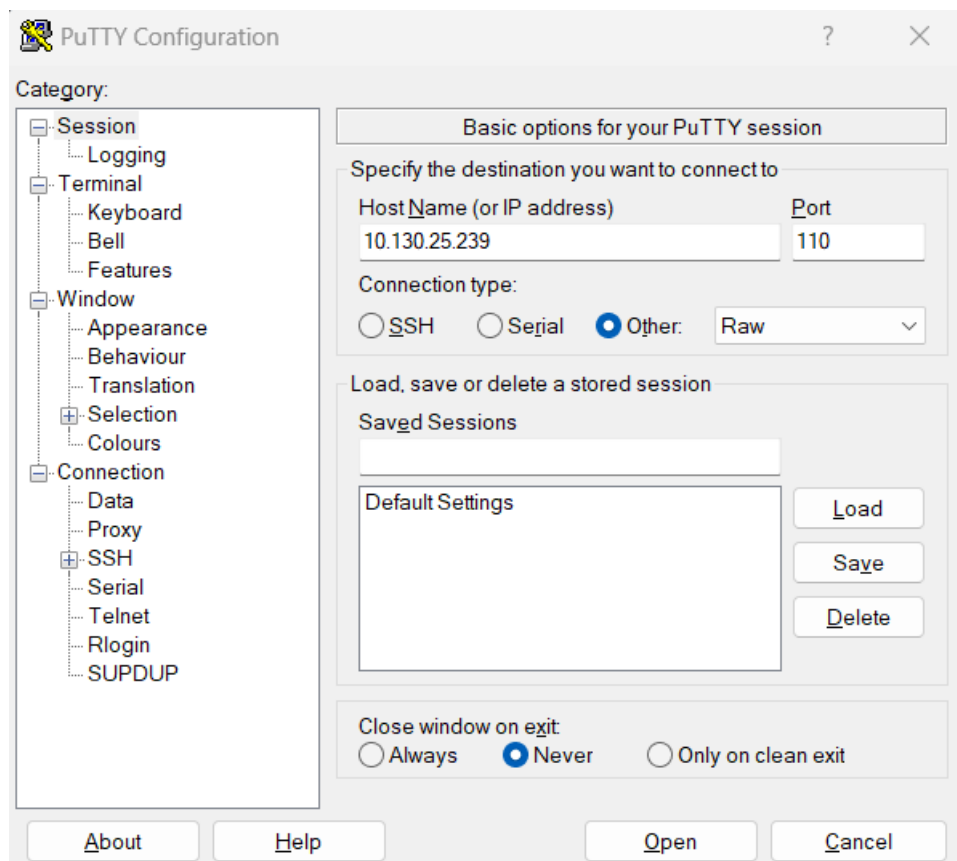
## 1.2 Retrieve a mail

To start, we will open the putty application.

We need to enter the following IP address: 10.130.25.239 and for the port: 110.

For the type of connection, we will put ourselves in raw.

Check the never box at the bottom of the application so that the window does not close and we can click on open. A new window with a black background will open.



Once connected to the server, we need to log in. To do this we must enter the following command:

**user** [username]

**pass** [password]

```
10.130.25.239 - PuTTY
+OK Dovecot ready.
USER: student
-ERR Unknown command.
user student
+OK
pass hessovs!
+OK Logged in.
```

Now we start from the principle as we are connected to the server for the next points.

- How many mails are in the mailbox?

To know how many emails there are we have two possibilities.

The first command allows us to know the number of mails, we just must enter the command: **stat**

this command gives the number of messages in the queue, as well as the total volume of messages in bytes.

```
user student
+OK
pass hessovs!
+OK Logged in.
stat
+OK 35 23183
```

The second command: **list**

it gives us the list of messages waiting, with for each message: Its order number in the queue its size in bytes

```
list
+OK 35 messages:
1 376
2 360
3 393
4 340
5 353
6 362
7 362
8 380
9 406
10 362
11 403
12 2370
13 2367
14 2369
15 313
16 380
17 298
18 349
19 298
20 295
21 319
22 455
23 299
24 308
25 2634
26 362
27 404
28 353
29 532
30 376
31 488
32 339
33 340
34 312
35 2526
```

We have a total of 35 emails.

- How long is the mail n° 1

With the **list** command, we have the size in bytes of the mail. The size of the first mail is 376 bytes

```
list
+OK 35 messages:
1 376
```

- Read the mail n° 1

To see the content of an email we must use the command "retr" followed by the number of the email when we saw in the previous point with the commands list and stat

```
retr 1
+OK 376 octets
Return-Path: <david.russo@hevs.ch>
X-Original-To: student@profbox.domain.local
Delivered-To: student@profbox.domain.local
Received: from unknown (unknown [10.28.1.121])
        by profbox.domain.local (Postfix) with SMTP id 040D91E6C
        for <student@profbox.domain.local>; Wed, 24 Nov 2021 17:57:09 +0100 (CET)
From:david.russo@hevs.ch
To:student
Subject:Welcome

Welcome
.
```

- Which command should be used to delete an email?

To delete an email, we must use the command "dele" followed by the number of the email we want to delete.

for example: dele 1

Before leaving the session, we must enter the command "quit". We must use this command, so that the server will consider the "dele" command.