Imap:

IMAP est un protocole qui nous permet d'accéder à un mail, et on l'utilise avec OpenSSL, une bibliothèque qui permet une communication entre réseaux de manière sécurisée à l'aide de SSL. SSL est une technologie qui sécurise les connexions en les chiffrant.

```
 ~/Desktop/taff/kekein/picine/K-picine/week1/day4/ [main] openssl s_client -crlf -connect imap.gmail.com:993
```

```
Content-Type: multipart/mixed;
 boundary="MIXED-6462247beb3b536020c1dc2113a6bf131aac3b4e60d2ddb45239d64e643a"
Message-ID: <010001860420f067-d2951f69-e3bf-46d5-b04e-f3b80753ef18-000000@email.amazonses.com>
Feedback-ID: 1.us-east-1.oLucXB6yBM9T4FPQ46anauLQEK3/p57WIg96prOpdEk=:AmazonSES
X-SES-Outgoing: 2023.01.30-54.240.11.135

)
tag OK Success
tag FETCH 6378:6388 (BODY)
* 6378 FETCH (BODY (("TEXT" "PLAIN" ("CHARSET" "UTF-8") NIL NIL "QUOTED-PRINTABLE" 1861 38)("TEXT" "HTML" ("CHARSET" "UTF-8") NIL
NIL "QUOTED-PRINTABLE" 28757 576) "ALTERNATIVE"))
* 6379 FETCH (BODY (("TEXT" "PLAIN" ("CHARSET" "UTF-8") NIL NIL "QUOTED-PRINTABLE" 13903 279)("TEXT" "HTML" ("CHARSET" "UTF-8") NI
L NIL "QUOTED-PRINTABLE" 54282 1086) "ALTERNATIVE"))
* 6380 FETCH (BODY (("TEXT" "HTML" ("CHARSET" "UTF-8") NIL NIL "QUOTED-PRINTABLE" 34573 692) "MIXED"))
* 6381 FETCH (BODY (("TEXT" "PLAIN" ("CHARSET" "UTF-8") NIL NIL "QUOTED-PRINTABLE" 1759 36)("TEXT" "HTML" ("CHARSET" "UTF-8") NIL
NIL "QUOTED-PRINTABLE" 28741 575) "ALTERNATIVE"))
* 6382 FETCH (BODY (("TEXT" "PLAIN" ("CHARSET" "UTF-8") NIL NIL "QUOTED-PRINTABLE" 1739 35)("TEXT" "HTML" ("CHARSET" "UTF-8") NIL
NIL "QUOTED-PRINTABLE" 28716 575) "ALTERNATIVE"))
* 6383 FETCH (BODY (("TEXT" "PLAIN" ("CHARSET" "utf-8") NIL NIL "QUOTED-PRINTABLE" 9231 185)("TEXT" "HTML" ("CHARSET" "utf-8") NIL
 NIL "QUOTED-PRINTABLE" 59762 1196) "ALTERNATIVE"))
* 6384 FETCH (BODY (("TEXT" "PLAIN" ("CHARSET" "UTF-8") NIL NIL "QUOTED-PRINTABLE" 1642 33)("TEXT" "HTML" ("CHARSET" "UTF-8") NIL
NIL "QUOTED-PRINTABLE" 28772 576) "ALTERNATIVE"))
* 6385 FETCH (BODY (("TEXT" "HTML" ("CHARSET" "utf-8") NIL NIL "QUOTED-PRINTABLE" 146901 2939) "MIXED"))
* 6386 FETCH (BODY (("TEXT" "HTML" ("CHARSET" "utf-8") NIL NIL "QUOTED-PRINTABLE" 143003 2861) "MIXED"))
* 6387 FETCH (BODY (("TEXT" "PLAIN" ("CHARSET" "UTF-8") NIL NIL "QUOTED-PRINTABLE" 9313 187)("TEXT" "HTML" ("CHARSET" "UTF-8") NIL
 NIL "QUOTED-PRINTABLE" 38359 768) "ALTERNATIVE"))
* 6388 FETCH (BODY (((("TEXT" "HTML" NIL NIL NIL "QUOTED-PRINTABLE" 21606 433) "ALTERNATIVE") "RELATED") "MIXED"))
tag OK Success
tag FETCH 6388 (BODY[n])
tag BAD Could not parse command
tag FETCH 6388 (BODY[n])
tag BAD Could not parse command
tag FETCH 6388 (BODY[0])
tag BAD Could not parse command
tag logout
* BYE LOGOUT Requested
tag OK 73 good day (Success)
40386AEB01000000:error:0A000126:SSL routines::unexpected eof while reading:ssl/record/rec layer s3.c:693:
```

Ensuite, il faut se connecter à son mail à l'aide de son adresse email et de son mot de passe d'application, que l'on récupère sur son compte Google :

- Activer la double authentification.
- Créer un mot de passe d'application.
- Récupérer ce mot de passe et le saisir juste après l'adresse email.

```
tag login joelfrancisco523@gmail.com tihdnuyzalyuwncb
* CAPABILITY IMAP4rev1 UNSELECT IDLE NAMESPACE QUOTA ID XLIST CHILDREN X-GM-EXT-1 UIDPLUS COMPRESS=DEFLATE ENABLE MOVE CONDSTORE E
SEARCH UTF8=ACCEPT LIST-EXTENDED LIST-STATUS LITERAL- SPECIAL-USE APPENDLIMIT=35651584
tag OK joelfrancisco523@gmail.com authenticated (Success)
```

On peut afficher la liste de nos dossiers.

```
tag LIST "" "*"
* LIST (\HasNoChildren) "/" "INBOX"
* LIST (\HasChildren \Noselect) "/" "[Gmail]"
* LIST (\Drafts \HasNoChildren) "/" "[Gmail]/Brouillons"
* LIST (\HasNoChildren \Trash) "/" "[Gmail]/Corbeille"
* LIST (\HasNoChildren \Important) "/" "[Gmail]/Important"
* LIST (\HasNoChildren \Sent) "/" "[Gmail]/Messages envoy&AOk-s"
* LIST (\HasNoChildren \Junk) "/" "[Gmail]/Spam"
* LIST (\Flagged \HasNoChildren) "/" "[Gmail]/Suivis"
* LIST (\All \HasNoChildren) "/" "[Gmail]/Tous les messages"
tag OK Success
```

On peut choisir un dossier.

```
tag SELECT INBOX
* FLAGS (\Answered \Flagged \Draft \Deleted \Seen $NotPhishing $Phishing)
* OK [PERMANENTFLAGS (\Answered \Flagged \Draft \Deleted \Seen $NotPhishing $Phishing \*)] Flags permitted.
* OK [UIDVALIDITY 1] UIDs valid.
* 8309 EXISTS
* 0 RECENT
* OK [UIDNEXT 8409] Predicted next UID.
* OK [HIGHESTMODSEQ 705886]
tag OK [READ-WRITE] INBOX selected. (Success)
```

Récupérer le nombre de mails dans notre dossier.

```
tag STATUS INBOX (MESSAGES)
* STATUS "INBOX" (MESSAGES 8309)
tag OK Success
```

Et récupérer les données dans les mails, comme le header et le body.

```
tag FETCH 6388 (BODY[n])
```

Pour le corps d'un message en particulier (changer *n* par une valeur).

Et pour se déconnecter, on fait :

```
tag logout
* BYE LOGOUT Requested
tag OK 73 good day (Success)
40386AEB01000000:error:0A000126:SSL routines::unexpected eof while reading:ssl/record/rec_layer_s3.c:693:
 ~/Desktop/taff/kekein/picine/K-picine/week1/day4/ [main]
```