

How to enable email encryption on Microsoft Outlook email client

PGP, also known as Pretty Good Privacy https://en.wikipedia.org/wiki/Pretty_Good_Privacy is a 27 years old encryption algorithm.

The system is simple. A user have 2 keys (like 2 passwords): a public key that is used to encrypt things and a private key that is used to decrypt things. So, if a user gives away his public key to anyone, then anyone can encrypt things sent to that user. The user, keeping hidden his private key and using it, is the sole person able to decrypt those things.

Such, PGP is used, amongst other things, for a system called end-to-end email encryption. The system goes like this:

- Alice has a computer, on which she runs an email client (Outlook) and generates a pair of keys, public and private.
- Bob has a computer, on which he runs an email client (Outlook) and generates a pair of keys, public and private.
- Alice send to Bob her public key, Alice keeps her private key hidden, stored safely
- Bob send to Alice his public key, Bob keeps his private key hidden, stored safely
- Alice send to Bob an email message, encrypted with Bob's public key that she has.
- Only Bob, on his own computer, where he installed the private key is able to read the message Alice sent

Alice and Bob can use different email clients (Thunderbird, Outlook, Mac Mail, a.s.o.) with the requirement that it supports PGP.

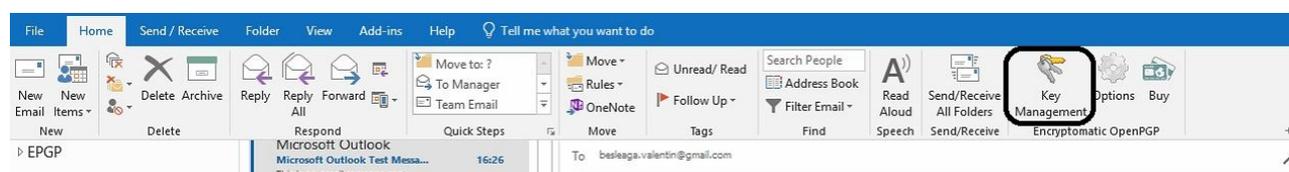
1. Install PGP Support in Microsoft Outlook

1.1. Install

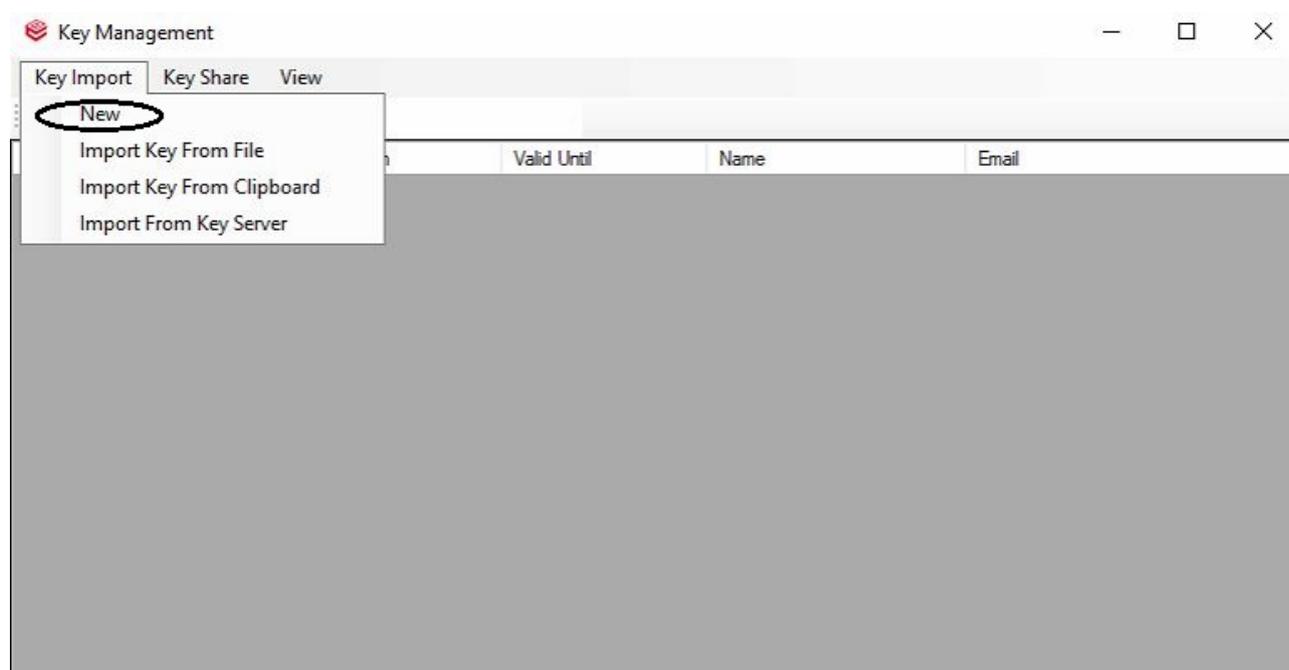
Access <https://www.encryptomatic.com/openpgp/> and download OpenPGP for Microsoft Outlook



1.2. After you install the program, open Microsoft Outlook and select Key Management.

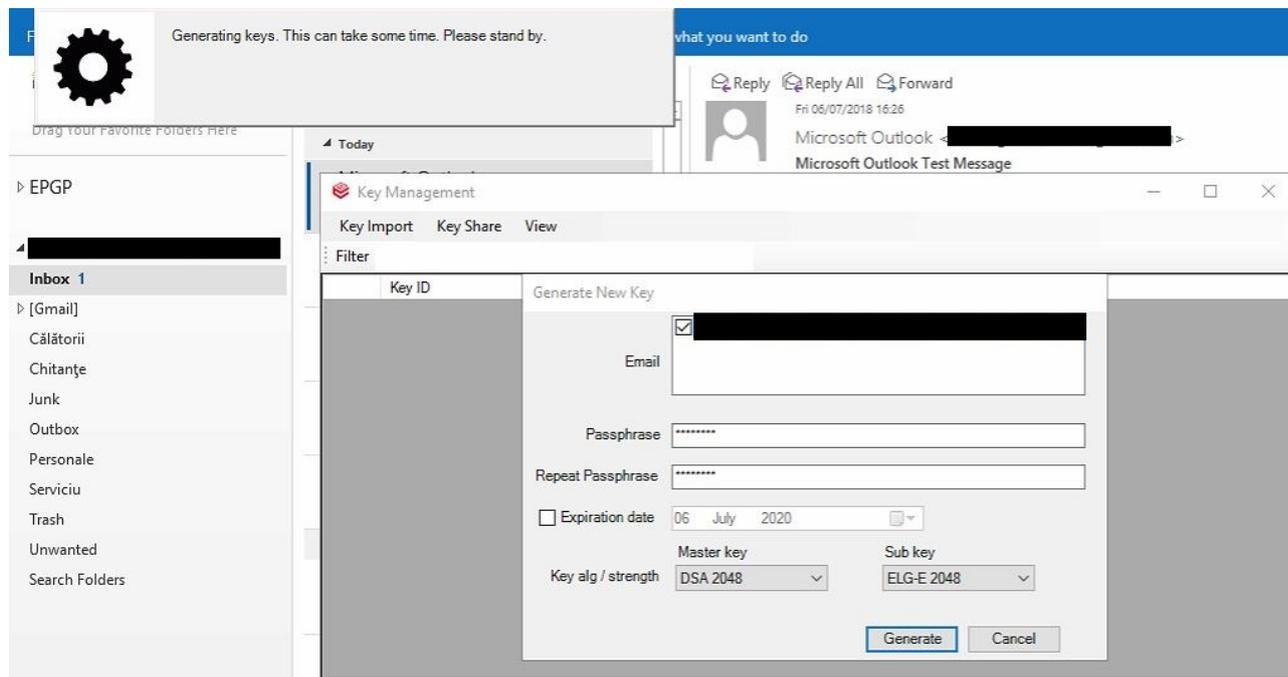


1.3. Then select Key Import -> New

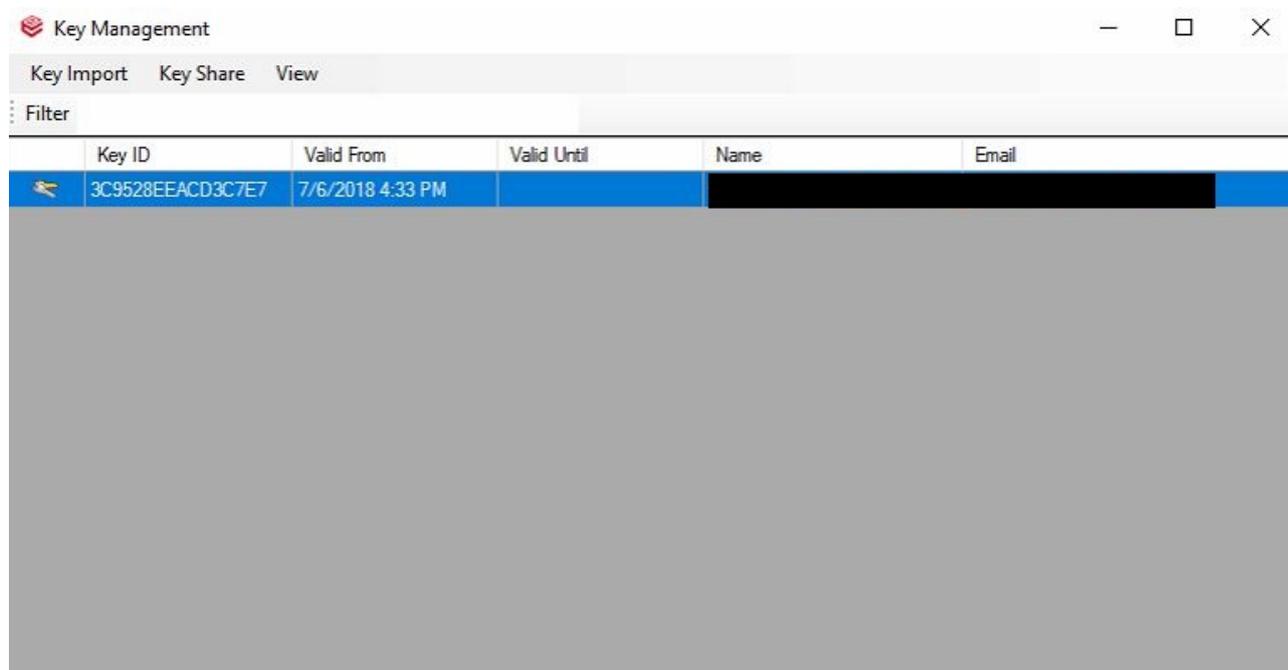


1.4. Generate

A new window will appear. In this windows select the email account and enter a passphrase. After the passphrase is entered click "Generate".

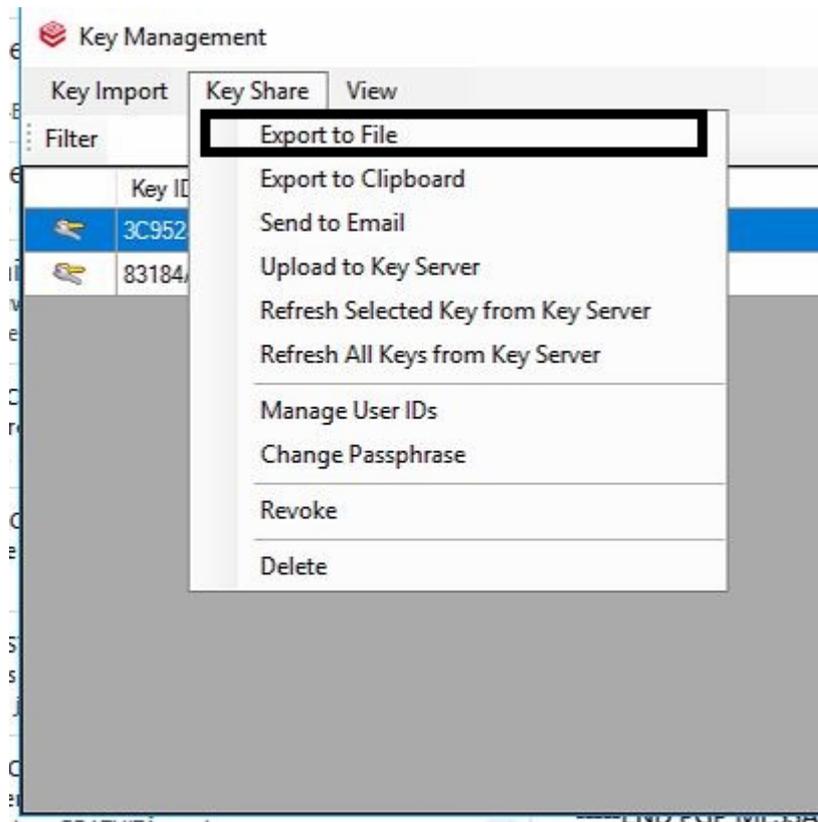


1.5. After the key is generated the Key Management window should look like the printscreen bellow.



2. Start sending encrypted email

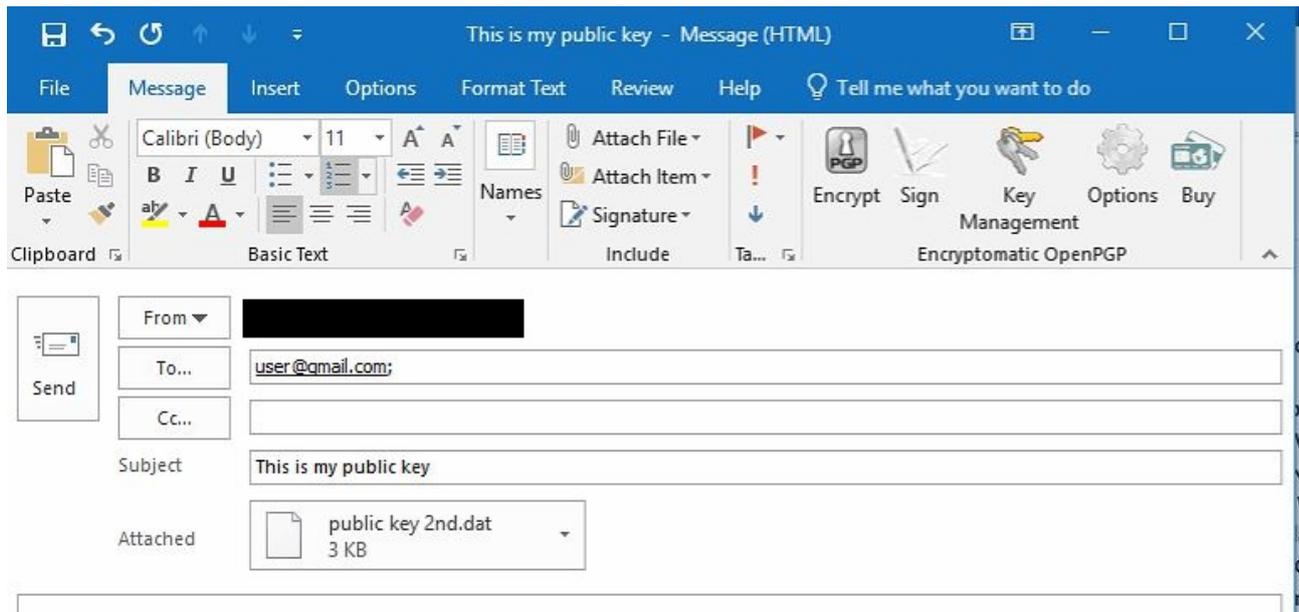
2.1. From Key Management select Key Share > Export to file



2.2. The select "Export public key" and save it.

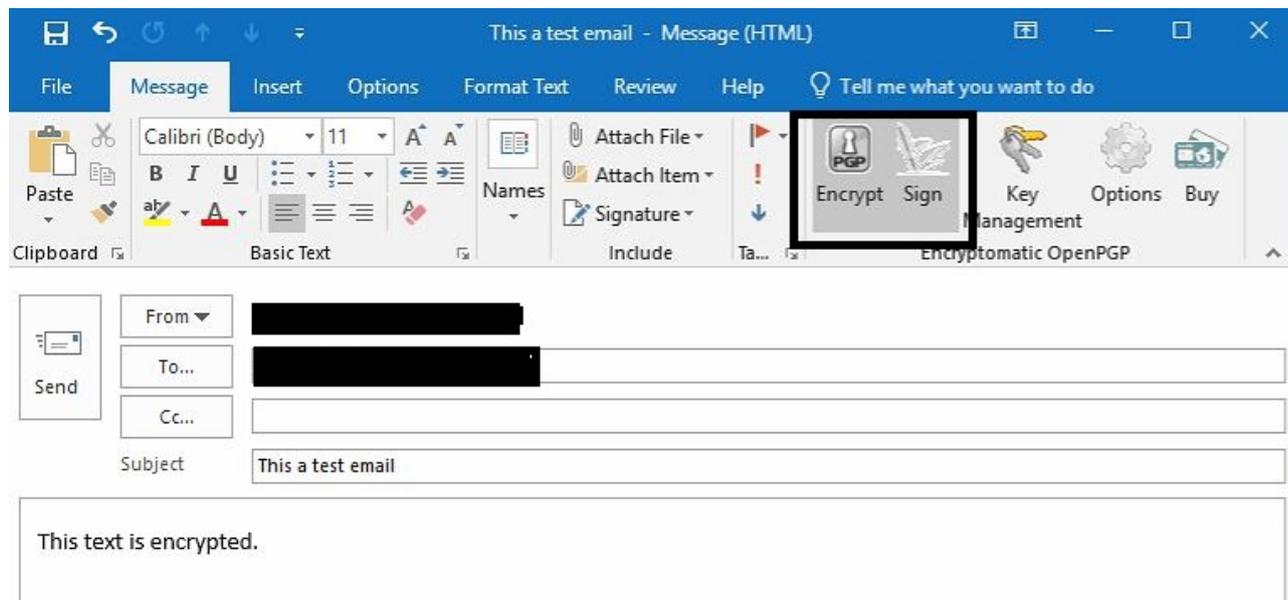


2.3. After the public key is saved, send an email with the public key attached and send it to the desired recipient



3. Send PGP encrypted email

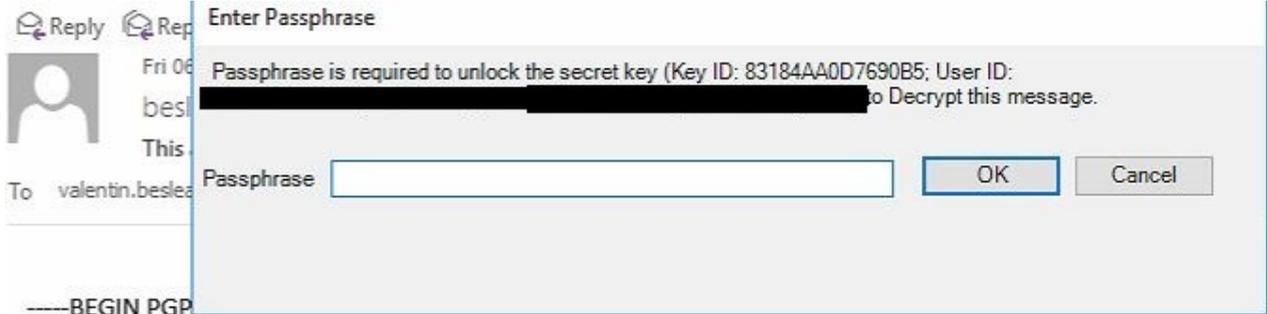
After the recipient receives and saves your public key, you can send encrypted emails by selecting from outlook "Encrypt" and "Sign".



After you select the "Encrypt" and "Sign" the next message will appear.



The recipient will receive an encrypted email will be shown like in the image bellow. To decrypt the email, open it and type the passphrase.



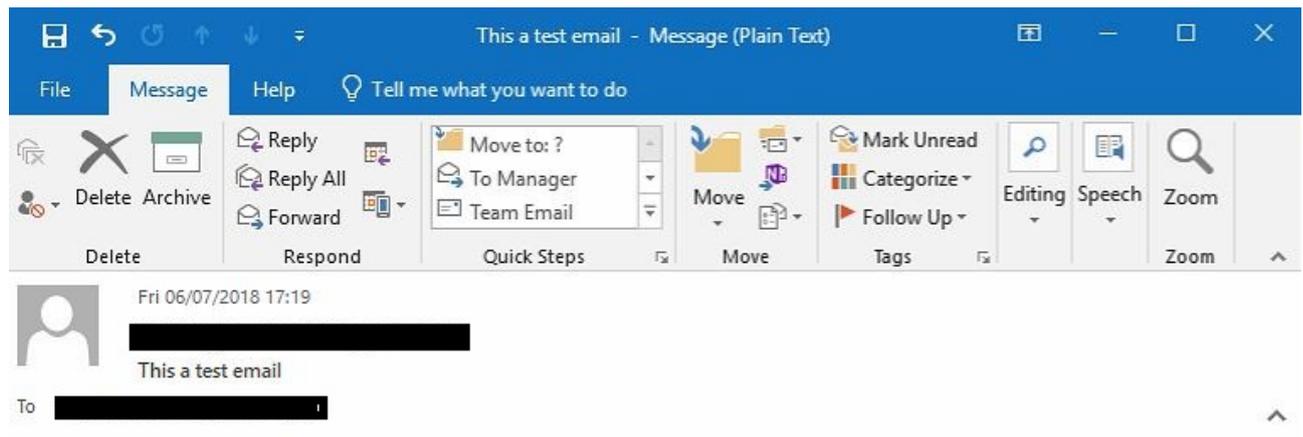
-----BEGIN PGP

Version: Encryptomatic OpenPGP Add-in for MS Outlook 2.5.2.0

```
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aqmlLixCh3eZBYiBnXc9fQ==
=x5RN
```

-----END PGP MESSAGE-----

After you type the passphrase, the encrypted text will be decrypted and shown like in the picture bellow.



This text is encrypted.

Encrypted & Signed with OpenPGP for Outlook by Encryptomatic LLC. Free for personal use.
Learn more at <https://www.encryptomatic.com/openpgp/>