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How can I manage validation and decryption of S/MIME encoded emails?

Julien Ducro - 2018-03-14 - Commenti (0) - Using Deskpro

Context

With the usage of an email certificate, you can ensure that your email communication is not tampered with and even encrypt the content so confidential data cannot be intercepted.

Getting a certificate

Several providers can deliver you an email certificate corresponding to your email address, you can get one for free on <u>Comodo</u>.

Email Signature

If you configure your email client you can sign your emails, which means adding an attachment that encrypts the original content of the email.

When the email is delivered the recipient compares the content with the signature and checks everything was delivered as it should be.

In Deskpro we add the following message to distinguish if the checks have passed:

MESSA	GES FULL LOG DATES & TIMES	
0	#1 Julien Ducro <julien.ducro@deskpro.com> less than a minute ago</julien.ducro@deskpro.com>	٥
	Test signed message to check	
	This message has been signed with a valid signature	

In the below case we add this error message to show the signature didn't match the content:

MESSAG	GES F	FULL LOG	DATES & TIMES		
Ω	#1 J	lulien Ducr	o <julien.ducro@de< th=""><th>skpro.com> 7 minutes ago</th><th>•</th></julien.ducro@de<>	skpro.com> 7 minutes ago	•
r 1	Test signed message to check				
	! Ih	e signature	e of this message	has been tampered with	

This means that the content has been altered or that the signature is corrupted. Common causes can be data corruption, user error and time not being properly set.

Email encryption

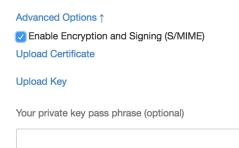
To encrypt emails you need to add the public certificate of your recipient in your system.

The content will then be unreadable to anyone who doesn't have the private key needed to decrypt it.

Set up

Go to Admin > Tickets > Email Accounts and select the target email account.

Under Account Details select Advanced Options



Upload your certificate and key.

Decrypted emails

If you send an encrypted email to Deskpro and its content is sucessfully decrypted with the key stored on the server, it will be shown like a regular message with an additional message to inform you (this email was also signed):

MESSAG	GES	FULL LOG	DATES & TIMES					
0	#1 .	Julien Ducr	o <julien.ducro@de< td=""><td>skpro.com> 7 minutes ago</td><td>•</td></julien.ducro@de<>	skpro.com> 7 minutes ago	•			
1.1	Encr	ypted con	tent, very secr	et.				
	Tremendous secrets here!							
	ŪT	his messaç	je has been signe	d with a valid signature				
		he messag	e has been extrac	ted from an encrypted email				

In the case of a failure of the decryption you will be provided with the below message. You can then try to open this in your email client.

MESSAG	SAGES FULL LOG DATES & TIMES						
2	#1 Julien Ducro <julien.ducro@deskpro.com></julien.ducro@deskpro.com>	7 minutes ago 🎄					
	original.eml (16.78 KB)						
	! The encrypted content of this email could not be extracted						

Tag email encryption signature