

Kerio Two-Factor Authentication





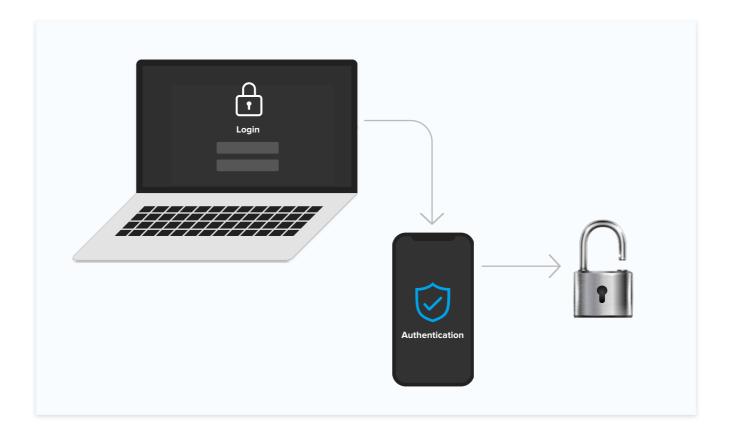
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Kerio Two-Factor Authentication

Kerio Connect Version 9.4 integrates Two-Factor Authentication (2FA) for additional access security. It uses Google and Microsoft mobile device authenticators to supply a real-time token so that administrators have control over the needed level of security. It can also be enabled for Kerio Connect admin console access.

Two-Factor Authentication complements the Kerio Connect Secure Email system. It provides an additional layer of security if usernames or passwords are compromised by phishing or other malicious attacks.



C Configuring 2-step verification

This 2-step verification adds an extra layer of security to your account by using an application on the user's smartphone to confirm their identity. By using 2-step verification, even if standard credentials are not compromised, access is not granted unless the second step is verified.

For access, users must first use their credentials to authenticate. Additionally, they must type in a special time-limited code generated by an authentication application on their phones or computers. The authentication must be supported by the Internet Engineering Task Force (IETF) standard RFC 6238. Examples include Google authenticator (available for iOS, Android, Windows phone) and FreeOTP authenticator (available for iOS and Android), though there can be other authentication applications.

The 2-step verification protects these parts of the product:

- Admin web interface
- ✓ Kerio Connect webmail
- Kerio Connect client

Enabling the 2-step verification

The administrator can configure 2-step verification per domain. The setting can be found on the Security tab when editing a specific domain.

it Domai	n									?
eneral	Security	Quota	Messages	Aliases	Forwarding	Footer	Directory Service	Advanced	Custom Logo	
User	must chan	s must mee ge passwo	t <u>complexity r</u> rd every:		s when creating	180	ng the password days rd.			
🖾 Reje		s with spo	ection ofed sender id t enabled in <u>s</u> e	Deres M	ings.					
🗹 Enat	actor autho ble 2FA Force for al		settings							
2FA	will expire	in: 7	days							
	e 2FA is sel st be used i		er (or immedi	ately if 2FA	is forced), reg	ular user pa	sswords will not wor	k in 3rd party	applications: App I	Passwords
🔔 Mak	te sure the	server time	e is synronized	with interr	net time, otherw	vise it may	result in 2FA code ve	rification failur	res.	
								-		
								l	ОК	Cancel

The administrator can choose to set up 2-step verification as optional for all users in the domain or they can enforce this security setting on all users.

(i) NOTE

Since 2 step verification code is time based, it is important to check the OS time on the server the where Kerio Connect mail server is de ployed. The OS time should be in sync with the internet time otherwise it may result in verification failures.

Scenario One

When 2-step verification is optional for all users within the domain

Process for enabling 2-step verification in Kerio Connect webmail

- Enter webmail the standard way on /webmail">https://syourlP>/webmail
- Authenticate using standard credentials
- Within the user interface, navigate to Settings menu
- At the bottom of the menu is "2FA Setup":

Kerio Connect		Email	Chat	Calendar	Contacts	Tasks	Notes
Settings	2-Factor Authentication Setup						
Email	2FA is enabled for your domain.						
Chat	START SETUP						
Out of Office							
Delegation							
Spam							
Filters							
Language & Region							
Notifications							
My Quota							
Folders to Sync							
Password Change							
App Passwords							
Secure Messages							
Mobile Devices	_						
2FA Setup							

- Click on the "Start 2FA Setup" button
- In the following dialog box, confirm that you want to start the 2-step verification setup:

Start 2FA Setup	
Do you really want to start 2FA setup? 3rd party able to use App Passwords for authentication.	apps will only be
YES	CANCEL

GFI.COM

Then on the following screen:

- 1 Type in the recovery email address that you want to use to receive the reset code for 2-step verification. Note that the recovery email address must be different from the current email address.
- **2** Scan the QR code with your prefered authentication application.
- 3 The Authentication application will generate a six digit code. Write down the code in the Authentication token column.

2-Factor Authentication Setup
2FA is enabled for your domain.
Secret Key DSU6XQQIUI5ZRHYXGOLBA7LBSGW2SR06
Recovery e-mail address yourRecoveryEmail@domain.com
Authentication token 3
SUBMIT

(i) NOTE

It is recommended that the recovery email be an email address outside the domain to which you have access.

Once all the information has been submitted correctly, the system will ask for the last verification:

Submit 2FA?	
Do you really want to subm	it 2FA now?
YES	CANCEL

Once verified, the system will inform you whether the 2-step verification was configured successfully. You may be asked to submit a 2-step verification code depending on domain settings.

Success
2FA Setup completed successfully.
ок

Process for enabling 2-step verification in Kerio Connect client mail

- Open Kerio Connect client the standard way
- Authenticate using standard credentials
 Navigate to the 2-step verification setup which is found under: Tools / Settings / 2FA setup

ile E	dit V	iew	Email	Window	Tools	Help			
Kerio Connect					c	Out of Office			
					S	ettings	Ctrl+Comma		
Inb	ох				_		COMPOSE		
Ser	nt								
Dra	fts								
Spa	am								
Tra	sh								
FOI	LDER	S			+				

- Click on the "Start 2FA Setup" button
- In the following dialog box, confirm that you want to start the 2-step verification setup:

Start 2FA Setup Do you really want to start 2FA setup able to use App Passwords for autho		apps will only be
	YES	CANCEL

Then on the following screen:

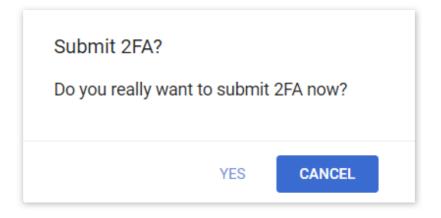
- 1 Type in the recovery email address that you want to use to receive the reset code for 2-step verification. Note that the recovery email address must be different from the current email address.
- **2** Scan the QR code with your prefered authentication application.
- 3 The Authentication application will generate a six digit code. Write down the code in the Authentication token column.

2-Factor Authentication Setup
2FA is enabled for your domain.
Secret Key DSU6XQQIUI5ZRHYXGOLBA7LBSGW2SR06
Recovery e-mail address yourRecoveryEmail@domain.com
Authentication token 3
SUBMIT

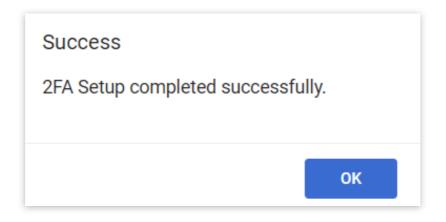
(i) NOTE

It is recommended that the recovery email be an email address outside the domain to which you have access.

Once all the information has been submitted correctly, the system will ask for the last verification:



Once verified, the system will inform you whether the 2-step verification was configured successfully. You may be asked to submit a 2-step verification code depending on domain settings.



$\textcircled{i} \mathsf{NOTE}$

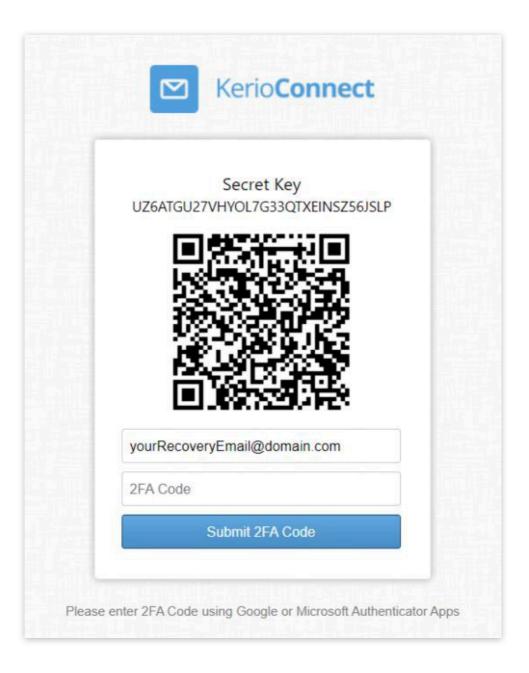
Older KerioConnect clients are not compatible with the new Kerio Connect server 9.4 because of the lack of 2 step verification support.

Scenario Two

When 2-step verification is enforced for all users within the domain

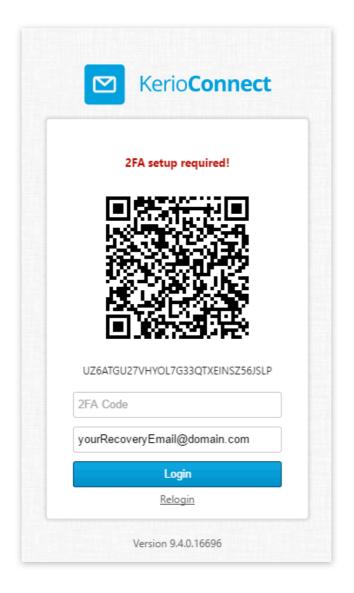
Process for enabling 2-step verification in Kerio Connect webmail

- Enter webmail the standard way on <u>https://<yourlP>/webmail</u>
- Authenticate using standard credentials
- After successful authentication, a 2-step verification setup screen will appear
- Complete the configuration by following the steps described in previous section



Process for enabling 2-step verification in Kerio Connect client mail

- Open Kerio Connect client the standard way
- Authenticate using standard credentials
- After successful authentication, a 2-step verification setup screen will appear
- Complete the configuration by following the steps described in previous section



(i) NOTE

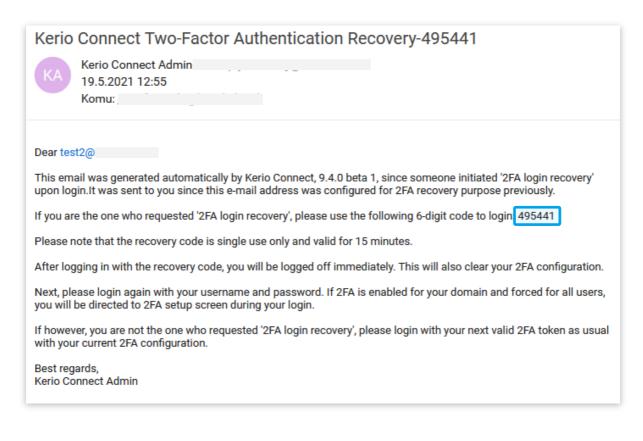
Older KerioConnect clients are not compatible with the new Kerio C onnect server 9.4 because of the lack of 2 step verification support.

Using recovery email

If you lose access to your 2-step verification code, you can recover or reset these settings with the recovery email submitted during the initial 2-step verification configuration. To use this function, click on the "Recover lost 2FA" button during the 2-step verification.



Once the "Recover lost 2FA" button has been pushed, the Kerio Connect mail server will send an email to the specified recovery email address:



The email will include the recovery six digit code which needs to be submitted into the "2FA code" column. Once the code has been submitted, the 2-step verification settings will be reset and you will be redirected to the initial login screen to submit your credentials. Once authenticated, you will need to re-do the 2-step verification process.

Resetting and turning off 2-step verification

If the 2-step verification has been switched off, you won't need to use your 2-step verification codes any more. However, the system will retain existing settings for 2-step verification users. After switching the 2-step verification back on, you will not be required to repeat the 2-step verification process again, but you will be asked to submit your codes when logging on.

In a scenario where you do not have your 2-step verification code and you also do not have access to your recovery email, an Administrator can still reset it for specific users in the User Section of the chosen domain.

main: @	v				
sername 🔺	Full Name		Description		Access Policy
Administrator	Administrator				Default
-					Default
3					Default
					Default
3					Default
3					Default
3			Key Distribution Center	er Service Account	Default
3					Default
🛃 test					Default
test2					Default
3 .	Add	•			Default
	Edit				
	Remove				
	More Actions	•	Reindex Mailbox		
	Import and Export		Restore IM Contact List		
			Reset 2FA Configuration		
	Print	4-	User Statistics		
			Mobile Devices		
			Clear App Passwords		

Once the 2-step verification is reset, you will need to re-do the 2-step verification process.

Enabling the 2-step verification for the administrator

In Kerio Connect, there are two types of administrators:

- Built in admin
- Domain administrator with full access rights to admin interface

Both of these accounts can enable the 2-step verification.

(i) NOTE

It is critical that the existing administrator does not use their associated administrator email as the recovery email address. Doing so will prevent the administrator from receiving their recovery access code and trigger a lock out.

Process for enabling 2-step verification for the Kerio Connect Administrator

As the administrator, turn on the 2-step verification for the domain and go to Setup. You will find the "Setup 2FA" button in the top right corner drop down menu.

	Q Administrator •
	Change language 🕨
	Help
	About
	Setup 2FA
	Logout

The following steps are identical to standard user steps described in previous sections

Process for enabling 2-step verification for the Kerio Connect built in admin

Once the built in admin account is enabled, you can turn on 2-step verification to enhance security. There needs to be at least one domain within Kerio Connect that has 2-step verification enabled. The setup of 2-step verification is exactly the same as described in previous sections. The only difference is how the 2-step verification can be reset. Since built in admin is not part of any domain, it has a separate reset button located in the Administration settings section:

Enable built-in administr	rator account
Login name:	Admin
Password:	<i></i>
Confirm password:	
Reset 2FA Configurati	on



All log messages regarding 2-step verification errors can be found in the *Logs/Error* section under the "TwoFAPolicyManSwitch.cpp" key.

Example:

[17/May/2021 12:18:30] TwoFAPolicyManSwitch.cpp: 2FA cookie token verification error for user: 'Joe.Doe@gfi.com', error: Invalid cookie token.

An error like this means that the user has submitted an incorrect 2-step verification six digit code.

Application passwords

If 2FA is turned on and users are not using Kerio Client WebMail or Kerio Connect Client (but are using KOFF, IMAP or something similar), users will need to set up application passwords.

Kerio Connect			
Settings	Signature		
Email	Default ▼ 10 ▼		
Chat			
Out of Office			
Delegation			
Spam			
Filters			
Language & Region	Preview pane		
Notifications	Right		
My Quota	Email List		
Folders to Sync	Emails per page 50 🔹		
Password Change	Reading		
App Passwords	Always display message preview		
Secure Messages	Mark displayed messages as read Immediately on display		
Mobile Devices	After displaying for 3		
2FA Setup	Display images from other websit		

Once 2FA is turned on, standard account passwords will not work anymore when using KOFF, IMAP or similar. These passwords will be replaced by application passwords which can be created by a user within Kerio Connect WebMail or within Kerio Connect Client after submitting a 2FA code or after successfully setting up 2FA.

Once the application password is configured, the password can not be changed or reviewed. It is strongly suggested that users save their passwords in the password vault.

If the application password is lost, users can easily delete previous passwords and create a new one.

App Password Wizard Description: KOFF						
Password: uin1inyFyq2hH2K) COPY						
Please copy the app password and enter it in your application. Once this screen is closed you cannot access the App Password again.						
	OK	CANCEL				
+ ADD APP PASSWORD						



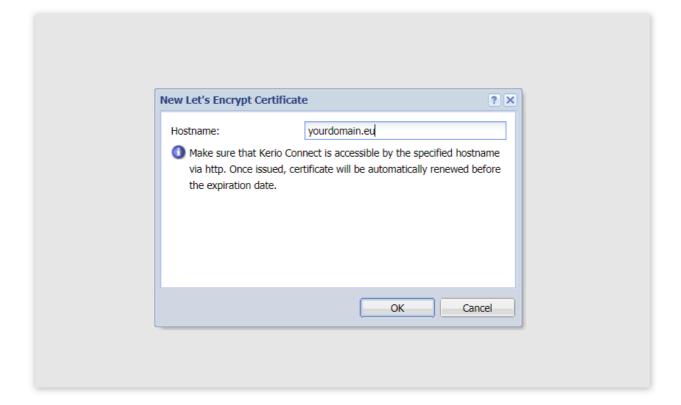
Kerio Connect Version 9.4 adds better integration directly into the product for the Let's Encrypt not-for-profit SSL certification author -- including auto-renewal of their 90-day certificates. This makes it easier for businesses to stay secure without adding additional costs. Let's Encrypt is a free, automated and open certificate authority. SSL certificates in Kerio Connect play a huge role in security of the product and its communication mechanism.

Setting up the Let's Encrypt SSL certificate

Let's Encrypt integration is easy. You can find it in the SSL certificate tab "New" as shown here:

	in Services	SSL Certificat	tes		
	@ Domains	Туре 🔺	Issuer	Subject	Expires
	🔜 SMTP Server	🔄 📸 Active Certificate	R3	test domain.sk	2021-09-13
2	🦳 Instant Messaging	📑 🕜 Default Certificate	WIN-NQCL3B2QND7.KACALA.local	WIN-NQCL3B2QND7.KACALA.local	2022-05-24
2) 111 2) 2)	🛃 Archiving and Backup				
ш	늻 Delivery				
-	SSL Certificates				
	Advanced Options				
Ð	🕐 Security				
	administration Settings				
	S MyKerio				
	Content Filter				
	🗾 Spam Filter				
	🔁 Antivirus				
	🚧 Attachment Filter				
	🛅 Message Filters				
	Definitions				
	🔛 Time Ranges				
	IP Address Groups				
t	Ser Access Policies				
KerioConnect	崎 User Templates				
	Company Locations	New Certificate Request			
eric		New Certificate			
K		New Let's Encrypt Certif	icate		
		New Show Detai	ls Import Export	Remove	

The next dialog box will ask you to submit the domain name where you want to generate the SSL certificate. To generate SSL certificates successfully, it is mandatory to have the Kerio Connect mail server reachable on port 80 / HTTP. The Let's Encrypt API will search for the submitted domain name and will verify all the needed information via HTTP.



Opening port 80 might be seen as a security risk for the server and users. It is therefore recommended to only use an encrypted connection with Kerio Connect. It will force users to use webmail over port 443 / HTTS instead of an unsecured HTTP.

For more information, please refer to the manual:

https://manuals.gfi.com/en/kerio/connect/content/server-configuration/ security/securing-kerio-connect-1239.html#sect-securitypolicy

Another option is to use an HTTP to HTTPS redirection function on the gateway firewall.



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