**HES-SO** Valais Wallis

# SMTP Server-Protocol

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#### Install SMTP

We will install "hmail-server" as the native Windows server functionality does not work properly. HMailserver is an open-source graphical program for setting up an SMTP server. Go to the next page of the following image:

C https://www.hmailserver.com/download						Aø.	τõ	€_≣	Ē	
Welcome Functionality	Download	Documentation	Community	Forum	Contact					
Download										
atest version										
Download hMailServer 5 (165015 downloads sine	5.6.8 - Build 25 ce 2021-10-03.	74 Change log								
			6							
3etas & other down	loads									
Please note that the latest be	ta may be older	than the latest sta	ble release.							
Download hMailServer 5 (8712 downloads since	5.6.9 - Build 26	02 (BETA)								
(										
t's possible to download olde	r releases on th	e archive download	l page. The com	olete hMails	Server source co	de is lo	cated or	n GitHu	ıb.	

After downloading it, you can launch the installation, nothing very specific. You will have to insert a password to access the administrative interface. Then you can launch the server. The window will ask you for the previously entered password:

hMailServer password	
Please enter the hMailServer password.	<u>What is this?</u>
ОК	Cancel

We are going to configure the server as follows, first go to "Settings" then "Protocols". You must check that only "SMTP" is checked:

hMailServer Administrator - [localhost]	_		$\times$
File Help			
Welcome Status Commitmed Status Commitmed Comm		Save	
	[	Exit	

Then we go to "Settings", "Advanced" and finally "IP Ranges" and click on the add button:

😼 hMa	ailServer Administrator - [localhost]								$\times$
File	Help								
	Welcome	IP Ranges							
- <u> </u>	Domains	Name	Lower IP	Upper IP	Priority	Exp	Add		_
		Remote	10.93.3.1	10.93.3.255	20				
	Protocols	My computer	127.0.0.1	127.0.0.1	15			Edit	
	S Anti-spam	Internet	0.0.0.0	255.255.255.255	10				
	🚯 Anti-virus							Remove	
-	Logging							Default	
E6	Advanced							Derduk	
	Auto-ban								
	SSL certificates								
·									
	Mirror								
	Performance								
	Server messages								
	SSL/TLS								
	Scripts								
1	TCP/IP ports								
🗄 - 🍞 - L	Utilities								
						>			
		-				-			
		Help						Save	
								Exit	

We will name it "remote", the "priority" field to 20, "Lower IP" to the IP address of the PuTTY SMTP client and for the "Upper IP" we can enter the same IP address. In the "Allow connections" section we check only "SMTP". In the "Other" section we uncheck all boxes. And in "Require SMTP Authentication" we also uncheck the whole section:

light hMailServer Administrator - [localhost]		– 🗆 X
File Help		
File       Help         Welcome       Status         Domains       Domains         Rules       Settings         Settings       Anti-spam         Anti-spam       Advanced         Advanced       Advanced         IP Ranges       IP Ranges         IP Ranges       Internet         Internet       Mirror	Remote         General         Name         Remote         Lower IP         10.93.3.1         Expires         2022-11-30 04:16:20         Xllow connections         SMTP         POP3	Priority 20 Upper IP 10.93.3.255 Other Anti-spam Anti-virus Require SSL/TLS for authentication
Server messages SSL/TLS Scripts TCP/IP ports	Allow deliveries from Local to local e-mail addresses Local to external e-mail addresses External to local e-mail addresses External to external e-mail addresses Help	Require SMTP authentication         Local to local e-mail addresses         Local to external e-mail addresses         External to local e-mail addresses         External to external e-mail addresses         External to external e-mail addresses         Save

Then in "Settings", "Advanced" and finally "TCP/IP ports" we will change the "0.0.0.0 / 25 / SMTP", we must enter the IP address of the PuTTY client as follows:

light hMailServer Administrator - [localhost]				×
File Help				
Welcome Status Domains Rules Protocols POP3 IMAP Anti-spam Anti-spam Advanced Advanced Advanced Advanced Advanced SSL certificates Pi Panges Incoming relays Mirror Performance Server messages SSL/TLS Scripts TCP/IP ports 0.0.0.0 / 110 / POP3 0.0.0.0 / 25 / SMTP Utilities	0.0.0.0 / 25 / SMTP         Protocol         SMTP         TCP/IP address         0.0.0         TCP/IP port         25         Connection security         None         SSL Certificate         If you change these settings, hMailServer needs to be restarted for the change	ges to take eff	fect.	
	Help			
			Exit	

### To one recipient

Then we can use "PuTTY" to send an email to a recipient with a dummy email address as follows, the commands do not change from the previous rendering here is how it looks:

🕵 PuTTY Configuration			?	×		
Category:						
Category: Session Logging Terminal Keyboard Bell Features Window Appearance Behaviour Translation Selection Colours Connection Data Proxy Serial Telnet Rlogin SUPDUP	Basic option:         Specify the destination yr         Host Name (or IP addre         10.130.25.29         Connection type:         SSH         SSH         Serial         Load, save or delete a st         Saved Sessions         Default Settings         Close window on exit         Always       Never	s for your PuTTY set ou want to connect to ss) Other: Raw tored session	ssion Port 25 Load Save Delete ean exit			
<u>A</u> bout <u>H</u> elp		<u>O</u> pen	<u>C</u> ancel			
<pre> Put Put Put Put Put Put Put Put Put Put</pre>	MTP ek.ch .com message !					×

$\leftarrow$	Supprimer définitivement Non-spam 🗹 🔇 🎸 🗈 D :	1 sur	4 <	>
	Test mail Spam ×		ð	Ľ
0	joiakim@dasek.ch À ✔	15:30 (il y a 0 minute) 🦷 🐕	r fi	:
P	ourquoi ce message figure-t-il dans les spams ? Il est semblable à des messages antérieurs identifiés comme des spams.			
	Signaler comme non-spam		Ċ	>
	🕱 anglais 🔹 🖒 français 👻 Traduire le message	Désactiver pou	r : anglais	×
	Hello this is my body message I			
	Area     Area       Area     Area <t< td=""><td></td><td></td><td></td></t<>			

#### To many recipients

Unlike the previous point, we simply need to add "RCPT TO:" twice, to send it to two recipients:



←	Supprimer définitivement Non-spam 🗹 🕐 🚱 🗗 🗅 🗄	1	1 sur 3	<	>
	Async-Work test mail - SMTP Server Spam ×			æ	ß
0	joiakim@dasek.ch À ❤	14:01 (il y a 3 minutes)	☆	¢	:
Po	ourquoi ce message figure-t-il dans les spams ? Il est semblable à des messages antérieurs identifiés comme des spams. Signaler comme non-spam			0	
	Mon corps de texte l				
	← Répondre				

#### Joke

I was not very inspired so I sent a simple email that can show the human vulnerability called "social engineering":

