## How to convert the ppk files to openssh format

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## How to convert putty generated .ppk files to .pem/openssh format

Windows - convert a .ppk file to a .pem file

1. Start PuTTYgen. Under Actions, choose Load, and then navigate to your .ppk file.

😴 PuTTY Key Generato	or		?	×
File Key Conversior	ns Help			
Key Public key for pasting in	to OpenSSH authorize	ad kave file:		
ssh-rsa AAAAB3NzaC1yc2EA NHy6N4Z451vNUJm/ LcoJt8VZldn1k27V1xl +twAb8wzw0+E5crQF	AAABJQAAAQEA18Pw mwSAv9c4vFeVDvIPF DB+ev9LAFsN0J9iN36 gqpqvudEn9leV6KMf0	/2Zi7Bk/ISqUAsgNQ7/tj PJjATizfcO77dzUQg1mP 66cAWM5feaxMcYRA9G 16p3t0zBoeQ1iSnjez3Y13	ZggsE3KxbK75v9 obSA559mWYpQ iCHLipaA0eY5m 31ZpnkDgJ51QT	<b>^</b>
Key fingerprint:	ssh-rsa 2048 d9:63:a3	3:3c:0a:a7:ee:c8:5d:57:5	ia:e5:b4:65:98:14	
Key comment:	rsa-key-20180809			
Key passphrase:				
Confirm passphrase:				
Actions				
Generate a public/priva	ate key pair		Generate	
Load an existing private	e key file	(	Load	
Save the generated ke	у	Save public key	Save private key	1

Parameters				
Type of key to	generate:		C ED25510	
Number of bits	in a generated ke	U ECD3A	O ED25515	2049
Number of bits in a generated key:				2048

2. Choose the .ppk file, and then choose Open.



3. Choose Conversions from the menu at the top of the PuTTY Key Generator, and then choose Export OpenSSH Key.

😴 PuTTY	Key Generato	or					?	$\times$
File Key	Conversion	ns ┥ elp		-				
Key	Impo	rt key						
Public ke	Expor	Export OpenSSH key						
AAAAB3	B Expor	rt OpenSSH key (force new file format)					KxbK75v9	
NHy6N4 LcoJt8V	Expor	t ssh.com k	œy			5	59mWYpQ A0eY5m	
+twAb8v	wzw0+E5crQF	gqpqvudEn	пелекино	op st Uz B	oeQ IISnjez3Y I3	1Zpnk	DgJ51QT	~
Key fingerprint: ssh-rsa 2048 d9:63:a3:3c:0a:a7:ee:c8:5d:57:5a:e5:					a:e5:b4	1:65:98:14		
Key com	ment:	rsa-key-201	rsa-key-20180809					
Key pass	Key passphrase:							
Confirm passphrase:								
Actions								
Generate	Generate a public/private key pair					G	ienerate	
Load an existing private key file				Load				
Save the generated key				Save	e public key	Save	ve private key	
Paramete	ers							
Type of RSA	key to generate	e: )SA	OECDS	SA	O ED25519	0	SSH-1 (RS	5A)
Number of bits in a generated key:					20	48		

4. For the PuTTYgen warning Are you sure you want to save this key without a passphrase to protect it?, choose Yes.

2	PuTTY	Key Generator
Eila	Kay	Conversions

? ×

File Key Conversions Help	
Key	
Public key for pasting into OpenSSH authorized keys file:	
ssh-rsa AAAAB3NzaC1yc2EAAAABJQAAAQEA18Pw2Zi7Bk/ISqUAsgl NHy6N4Z451vNUJm/mwSAv9c4vFeVDvIPPJjATizfcO77dzUG LcoJt8VZIdn1k27V1xDB+ev9LAFsN0J9iN366cAWM5feaxMcY +twAb8wzw0+E5crQFgqpqvudEn9leV6KMf06p3t0zBoeQ1iSnje	A NQ7/tZggsE3KxbK75v9 Ng1mPobSA559mWYpQ /RA9GCHLipaA0eY5m ez3Y131ZpnkDgJ51QT ✓
Key fingerprint: PuTTYgen Warning	× :65:98:14
Key comment:	
Key passphrase 🔒 Are you sure you want to save t	his key
Confirm passphra	t it?
Actions	
Generate a publ	ienerate
Load an existing private key file	Load
Save the generated key Save public ke	Save private key
Parameters	
Type of key to generate: RSA O DSA O ECDSA O ED2	5519 🔘 SSH-1 (RSA)
Number of bits in a generated key:	2048

5. Name the file and add the **.pem** extension.

PuTTY Key Generator			? ×					
e Key Conversions Help								
Key					-			
Public key for pasting into OpenSSH aut	thorized_keys file:							
Save private key as:								>
$\leftrightarrow \rightarrow \checkmark \uparrow \blacksquare \rightarrow$ This PC	> Desktop >				ٽ ~	Search Desktop		þ
Organise 🔻 New folder	este a new folder	l					<b>•</b>	?
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📰 Pictures 🛛 🖈				$\bigcirc$				
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🗊 3D Objects	m							
📃 Desktop								
🖶 Documents 🗡								
File name: sshkey.pem								
Save as type: All Files (*.*)	)							
						$\frown$		
Hide Folders					(	Save	Cancel	

## Unix or Linux - install PuTTY

Install PuTTY, if it's not already on your system, by running one of these commands:

RPM-based/centos

Dpkg-based/ubuntu/debian

Unix or Linux - convert a .ppk file to a .pen file

Run the **puttygen** command to convert a .ppk file into a .pem file: