## onversica 📀

## Setting Up SFTP and Creating SSH Keys

This document will walk you through the process of creating public and private key pairs. To Navigate to operating system specific instructions for creating SSH keys, please click one of the links below.

- Creating SSH keys in Windows
- Creating SSH Keys on a Mac

## Creating SSH keys in Windows

1. Download and run PuTTYGEN. PuTTYGEN is included with WinSCP, but if you're not using WinSCP, you can download a standalone version.

🌆 Login		- 🗆 X
	Session  File protocol:  SFTP  Host name:  User name:  Save  Save	Port number: 22 - ssword: Advanced
Tools 👻 Manage 💌	🔁 Login 🛛 🔝	Close Help

a. To run PuTTYGEN from WinSCP, click the Tools dropdown box and select Run PuTTYgen.



2. Select RSA.

😴 PuTTY Key Generator	? >	<
File Key Conversions Help		
Key No key.		
Actions		
Generate a public/private key pair	Generate	
Load an existing private key file	Load	
Save the generated key Save public key	Save private key	
Parameters Type of key to generate:	○ SSH-1 (RSA) 2048	



3. Click the Generate button.

PuTTY Key Generator	? ×
File Key Conversions Help	
Key No key.	
Actions	
Generate a public/private key pair	Generate
Load an existing private key file	Load
Save the generated key Save public key	Save private key
Parameters	
Type of key to generate:	9 🔿 SSH-1 (RSA)
Number of bits in a generated key:	2048



4. Move your mouse pointer around in the blank area of the **Key** section, until the progress bar is full.

ا 😴	PuTTY k	Key Generator						?	Х
File	Key	Conversions	Help						
P	lease ge	enerate some ran	domness	by moving	the mot	use over the blar	ık area.		
A G L	ctions ienerate oad an e iave the	a public/private existing private ke	key pair ey file		Sav	e public kev	Gene Lo Save pri	erate ad vate ke	
P T ()	arameter ype of k RSA lumber o	rs ey to generate: DSA f bits in a genera	ted key:	⊖ ECD	SA	O ED25519	O SS 2048	H-1 (RS	5A)



5. Once the progress bar fills, the key is generated and displayed.

😴 PuTTY Key Generato	r	? ×
File Key Conversion	s Help	
Key		
Public key for pasting in	o OpenSSH authorized_keys file:	
ssh-rsa AAAAB3NzaC1yc2EA aDeFY8Dr8mMlbnZac MG6kH4a8PVOwFVk( W2GrCN0hguAnw3Ny	AABJQAAAQEA4VnICSzGfQJZCOHu ?aUognjWGqoAfoFmRiuyDfPrXb/Aqui hHiqXX6kaa8yEJlQd44+FHpwIuYwot QYVdEzpKyUvRKnT6uvzohtJkd/J87;	XTQEUQezwVaXBH3dyd J6tkwcGcwSqnCU2Xhy0 GHcK38uJXNKnDR9E4P f2fzjJ7A3igJfCnXTw34fW
Key fingerprint:	ssh-rsa 2048 45:2b:a9.fe:a7:8f:c2:dd:	12:9f:a3:7f:86:87:17:c0
Key comment:	rsa-key-20180711	
Key passphrase:		
Confirm passphrase:		
Actions		
Generate a public/priva	e key pair	Generate
Load an existing private	key file	Load
Save the generated ke	Save public	key Save private key
Parameters		
Type of key to generate	: SA OECDSA OEE	025519 🔿 SSH-1 (RSA)
Number of bits in a gen	rated key:	2048



6. You can enter a password into the **Key Passphrase** and **Confirm Passphrase** boxes for added security but it is not required. You will have to enter this password whenever you log into the SFTP server.

Ś	PuTTY K	(ey Generato	r				?	×
Fi	le Key	Conversion	s Help					
	Key							
	<u>P</u> ublic key	for pasting in	to OpenSSH	authorized	l_keys f	ile:		
	ssh-rsa AAAAB3NzaC1yc2EAAAABJQAAAQEA4VnICSzGfQJZCOHuXTQEUQezwVaXBH3dyd aDeFY8Dr8mMlbnZacPaUognjWGqoAfoFmRiuyDfPrXb/Aquu6tkwcGcwSqnCU2Xhy0 MG6kH4a8PVOwFVkGhHiqXX6kaa8yEJlQd44+FHpwluYwotGHcK38uJXNKnDR9E4P W2GrCN0hguAnw3NylQYVdEzpKyUvRKnT6uvzohtJkd/J87zf2fzjJ7A3igJfCnXTw34fW							
	Key finger	print:	ssh-rsa 204	8 45:2b:a9:	fe:a7:8f	:c2:dd:12:9f:a3:	7f:86:87:17:c0	
	Key <u>c</u> omn	nent:	Test Key					
	Key p <u>a</u> ssp	ohrase:	•••••					
	C <u>o</u> nfirm pa	assphrase:	•••••					
ľ	Actions							
	Generate	a public/priva	te key pair				<u>G</u> enerate	
	Load an e	xisting private	key file				<u>L</u> oad	
	Save the	generated key	y		Save	p <u>u</u> blic key	<u>S</u> ave private ke	ey
	Parameter Type of k	s ev to generate	s.					
	● <u>R</u> SA		SA	⊖ <u>e</u> cds	A	○ ED <u>2</u> 5519	○ SSH- <u>1</u> (R	SA)
	Number o	f <u>b</u> its in a gene	erated key:				2048	



7. Click the **Save public key** button and name your file. You can use any name you want, but you will want to use a descriptive name like "Conversica Public Key."

😴 PuTTY Key Generato	r	? ×						
File Key Conversion	s Help							
Key								
Public key for pasting in	to OpenSSH authorized_keys file:							
ssh-rsa AAAAB3NzaC1yc2EA aDeFY8Dr8mMlbnZac MG6kH4a8PVOwFVk0 W2GrCN0hguAnw3Ny	ssh-rsa AAAAB3NzaC1yc2EAAAABJQAAAQEA4VnICSzGfQJZCOHuXTQEUQezwVaXBH3dyd aDeFY8Dr8mMlbnZacPaUognjWGqoAfoFmRiuyDfPrXb/Aquu6tkwcGcwSqnCU2Xhy0 MG6kH4a8PVOwFVkGhHiqXX6kaa8yEJlQd44+FHpwluYwotGHcK38uJXNKnDR9E4P W2GrCN0hguAnw3NylQYVdEzpKyUvRKnT6uvzohtJkd/J87zf2fzjJ7A3igJfCnXTw34fW							
Key fingerprint:	ssh-rsa 2048 45:2b:a9.fe:a7:8f:c2:dd:1	12:9f:a3:7f:86:87:17:c0						
Key <u>c</u> omment:	Test Key							
Key p <u>a</u> ssphrase:	•••••							
Confirm passphrase:	Confirm passphrase:							
Actions								
Generate a public/priva	te key pair	<u>G</u> enerate						
Load an existing private	key file	Load						
Save the generated ke	y Save p <u>u</u> blic I	key <u>S</u> ave private key						
Parameters								
Type of key to generate RSA	sa <u>e</u> cdsa ed	1 <u>2</u> 5519 (RSA)						
Number of <u>b</u> its in a gen	erated key:	2048						

8. Click the **Save private key** button and choose a file name. Make sure this private key is stored somewhere safe and it will not get lost. If something happens to this file, it will result in loss of access until a new public



and private key pair can be made and the Conversica system can be reconfigured for the new credentials.

😴 PuTTY Key Generato	or				?		Х	
File Key Conversion	ns Help							
Key								
Public key for pasting in	nto Open SS	H authorize	d_keys	file:				
ssh-rsa AAAAB3NzaC1yc2EA aDeFY8Dr8mMlbnZac MG6kH4a8PVOwFVk W2GrCN0hguAnw3Ny	ssh-rsa AAAAB3NzaC1yc2EAAAABJQAAAQEA4VnICSzGfQJZCOHuXTQEUQezwVaXBH3dyd aDeFY8Dr8mMlbnZacPaUognjWGqoAfoFmRiuyDfPrXb/Aquu6tkwcGcwSqnCU2Xhy0 MG6kH4a8PVOwFVkGhHiqXX6kaa8yEJlQd44+FHpwluYwotGHcK38uJXNKnDR9E4P W2GrCN0hguAnw3NvlQYVdEzpKyUvRKnT6uvzohtJkd/J87zf2fziJ7A3igJfCnXTw34fW							
Key fingerprint:	ssh-rsa 204	48 45:2b:a9	).fe:a7:8	f:c2:dd:12:9f:a3:	7f:86:87:17:	c <b>0</b>		
Key comment:	Test Key							
Key p <u>a</u> ssphrase:	•••••							
Confirm passphrase:	Confirm passphrase:							
Actions								
Generate a public/prive	ate key pair				<u>G</u> enera	ate		
Load an existing private	e key file				<u>L</u> oad	ł		
Save the generated ke	у		Sav	e p <u>u</u> blic key	<u>S</u> ave priva	ite key		
Parameters								
Type of key to generat	e: <u>)</u> SA		SA	O ED25519	⊖ ssh	1 (RSA	)	
Number of <u>b</u> its in a gen	erated key:				2048			



9. Right-click in the text field labeled Public key for pasting into OpenSSH authorized\_keys file and choose Select All.

😴 PuTTY Key Generator		? ×
File Key Conversions Hel	р	
Key		
Public key for pasting into Open	SSH authorized_keys file:	
ssh-rsa AAAAB3NzaC1yc2EAAAA aDeFY8Dr8mMlbnZacPal	Undo	3dyd (hy0
MG6kH4a8PVOwFVkGhF W2GrCN0hguAnw3NylQY	Cut	9E4P 34fW ∽
Key fingerprint: ssł	Сору	c0
Key <u>c</u> omment: Te	Paste	
Key p <u>a</u> ssphrase:	Delete	
Confirm passphrase:	Select All	
Actions	Right to left Reading order	
Generate a public/private	Show Unicode control characters	ate
Load an existing private ke,	Insert Unicode control character	<<
Save the generated key	Save p <u>u</u> blic key	<u>S</u> ave private key
Parameters		
Type of key to generate:	○ <u>E</u> CDSA ○ ED <u>2</u> 5519	○ SSH- <u>1</u> (RSA)
Number of <u>b</u> its in a generated ke	ey:	2048



10. Right-click again once the text is highlighted in the same text field and choose **Copy**.

😴 PuTTY Key Generator	? ×
File Key Conversions Help	
Key <u>P</u> ublic key for pasting into OpenSSH autho	rized_keys file:
ssh-rsa AAAAB3NzaC1yc2EAAAABJQAAAQEA4 aDeFY8Dr8mMlbnZacPaUognjWGqo, MG6kH4a8PVOwFVkGhHiqXX6kaa&	
W2GrCN0hguAnw3NylQYVdEzpKyUv	Cut
Key fingerprint: ssh-rsa 2048 4	Сору
Key comment: Test Key	Paste
Key p <u>a</u> ssphrase:	Delete
Confirm passphrase:	Select All
Actions	Right to left Reading order
Generate a public/private key pair	Show Unicode control characters
Load an existing private key file	Insert Unicode control character >
Save the generated key	Save p <u>u</u> blic key <u>S</u> ave private key
Parameters	
Type of key to generate: ● <u>R</u> SA ○ <u>D</u> SA ○ <u>E</u> C	CDSA
Number of <u>b</u> its in a generated key:	2048

11. Send the copied value to your TAM. The key should all be on one line and begin with "ssh-rsa AAAA ...."



## Creating SSH Keys on a Mac

1. Select Launchpad and type "terminal" and then click on the terminal icon.





2. Type "ssh-keygen -t rsa" without the quotes.





3. You will be prompted for a location to save the key files. If you just press Enter it will save in the default location. The rest of these instructions are written as though you saved to the default location.



4. You will be prompted for a passphrase. You can enter one or leave it empty. If you enter a password, you will need to enter it twice and the passphrase will need to be entered every time you log into the SFTP directory.



5. Terminal will display a message giving the location of the new files and it will provide a key fingerprint and random art. You do not need the fingerprint or random art.



6. **Press Command + Shift + G** and enter the location that terminal says the file was stored to go to the location where the key file was saved.

	conversica		
$\langle \rangle$		Search	
AirDrop	Name	Size	Kind
All My Files	▶ Co to the folder:		Folder
	Users/conversica/.ssh		Folder
			Folder
Applications	Cancel Go		Folder
E Desktop			Folder
	▶ O Pictures Jun 18, 2018, 12:28 PM		Folder
Documents	Public Jun 18, 2018, 12:28 PM		Folder
U Downloads			
Devices			
Remote Disc			
Shared			
🛞 All			
Tama			
lags			
Red			
Orange			



7. Copy the .pub file to an email and send it to your TAM.

You are now ready to log into your directory. Please contact your TAM for the next steps.