Generate SSH keys on Windows

- 1. Install PuTTY. The PuTTY command-line SSH client, the PuTTYgen key generation utility, the Pageant SSH authentication agent, and the PuTTY SCP and SFTP utilities are packaged together in a Windows installer <u>Download PuTTY:</u> <u>latest release (0.79) (greenend.org.uk)</u>
- 2. Launch PuTTYgen.
- 3. In the "PuTTY Key Generator" window, under "Parameters":
 - For "Type of key to generate", select EdDSA.
 - For "Number of bits in a generated key", leave the default value.
- 4. Under "Actions", click Generate.

Key					
Public key for pasting	into OpenSSH authorized_keys file:				
ssh-ed25519 AAAAC 20240117	3NzaC1IZDI1NTE5AAAAIBUBpsVkZpFXue	YhJN4gEqn9BVTs0J2DH3cf	ENhNc40tA eddsa-key-		
	-10				
Key f <u>i</u> ngerprint	ssh-ed25519255SHA256:AIS8Z4J97N6gPT4i6oiJFGbBmJyeNhA27s8QZeUrxR4				
Key <u>c</u> omment	comment eddsa-key-20240117				
Key p <u>a</u> ssphrase:					
Confirm passphrase:					
C <u>o</u> nfirm passphrase: Actions					
C <u>o</u> nfirm passphrase: Actions Generate a public/pri	vate key pair		<u>G</u> enerate		
Confirm passphrase: Actions Generate a public/pri Load an existing priva	vate key pair ate key file		<u>G</u> enerate Load		
Confirm passphrase: Actions Generate a public/pri Load an existing priva Save the generated k	vate key pair ate key file key	Save p <u>u</u> blic key	<u>G</u> enerate Load <u>S</u> ave private key		
Confirm passphrase: Actions Generate a public/pri Load an existing priva Save the generated k Parameters	vate key pair ate key file key	Save p <u>u</u> blic key	<u>G</u> enerate Load <u>S</u> ave private key		

- 5. When prompted, **use your mouse (or trackpad) to move your cursor around the blank area under "Key";** this generates randomness that PuTTYgen uses to generate your key pair.
- 6. When your key pair is generated, PuTTYgen displays the public key in the area under "Key". In the "Key passphrase" and "Confirm passphrase" text boxes, enter a passphrase to passphrase-protect your private key.

e Key Conversions	Help				
Kev	Ticip				
Public key for pasting i	into OpenSSH author	rized keys file:			
ssh-ed25519 AAAAC3 20240117	NzaC1IZDI1NTE5A4	AAIBUBpsVkZpFXue	/hJN4gEqn9BVTs0J2DH	3cENhNc40tA eddsa-key-	
Key fingerprint	ssh-ed25519 255 SHA256:AIS8Z4J97N6gPT4i6oiJFGbBmJyeNhA27s8QZeUrxR4 eddsa-key-20240117				
Key <u>c</u> omment					
Key passphrase:					
Key p <u>a</u> ssphrase: C <u>o</u> nfirm passphrase					
Key p <u>a</u> ssphrase: C <u>o</u> nfirm passphrase Actions					
Key p <u>a</u> ssphrase: C <u>o</u> nfirm passphrase Actions Generate a public/priv:	ate key pair			Generate	
Key p <u>a</u> ssphrase: Confirm passphrase Actions Generate a public/priva Load an existing privat	ate key pair e key file			<u>G</u> enerate Load	
Key p <u>a</u> ssphrase: Confirm passphrase Actions Generate a public/prive Load an existing privat Save the generated ke	ate key pair le key file		Save p <u>u</u> blic key	Generate Load Save private key	
Key p <u>a</u> ssphrase: Confirm passphrase Actions Generate a public/priv Load an existing privat Save the generated ke Parameters	ate key pair le key file ?y		Save p <u>u</u> blic key	<u>G</u> enerate Load Save private key	
Key p <u>a</u> ssphrase: Confirm passphrase Actions Generate a public/priv Load an existing privat Save the generated ke Parameters Type of key to generat O RSA	ate key pair te key file ey te: DSA	OECDSA	Save p <u>u</u> blic key	<u>G</u> enerate Load Save private key	

Note:

If you don't passphrase-protect your private key, anyone with access to your computer will be able to SSH (without being prompted for a passphrase) to your account on any remote system that has the corresponding public key.

- 7. Right-click in the "Public key for pasting into OpenSSH authorized_keys file" text box, choose Select All, and then right-click in the text box again and select Copy.
 - a. Save your private key in a safe place. Under "Actions", next to "Save the generated key", click Save private key.

PuTTY Key Generat	or				
e Key Conversions	s Help				
Key					
Public key for pasting	into OpenSSH auth	orized_keys file:			
ssh-ed25519 AAAAC: 20240117	3NzaC1IZDI1NTE5A	AAAIBUBpsVkZpFXue	YhJN4gEqn9BVTs0J2DH3cl	ENhNc40tA eddsa-key- 🔨	
Key fingerprint:	ssh-ed25519 255 \$	SHA256:AIS8Z4J97N6gF	74i6oiJFGbBmJyeNhA27s8	√ QZeUrxR4	
Key <u>c</u> omment	eddsa-key-20240117				
Key p <u>a</u> ssphrase:					
C <u>o</u> nfirm passphrase					
Actions					
Generate a public/priv	vate key pair			<u>G</u> enerate	
Load an existing priva	te key file			Load	
Save the generated k	еу		Save p <u>u</u> blic key	<u>S</u> ave private key	
Parameters					
Type of key to genera	te: O <u>D</u> SA	⊖ <u>e</u> cdsa	€dD <u>S</u> A	⊖ssh- <u>1</u> (RSA)	
<u>O R</u> SA					

Note:

If you no longer have the public key, or if it is later determined to be invalid, use the following steps to obtain a public key:

- 1. Launch PuTTYgen.
- 2. Click Load.
- 3. Navigate to your private key and click Open.
- 4. In the PuTTYgen pop-up window, enter the passphrase.
- 5. Right-click in the "Public key for pasting into OpenSSH authorized_keys file" text box, choose Select All, and then right-click in the text box again and select Copy.
- 6. Select File > Exit to close PuTTYgen.