Steps to convert private key from putty format to openssh format

1. Navigate to the folder where putty is installed.

```
nis PC > Local Disk (C:) > Program Files > PuTTY
```

Name	^ Date modified	Туре	Size
LICENCE	04-07-2017 19:31	File	2 KB
🏂 pageant.exe	04-07-2017 19:34	Application	307 KB
🛃 plink.exe	04-07-2017 19:34	Application	603 KB
🚰 pscp.exe	04-07-2017 19:34	Application	613 KB
🚽 psftp.exe	04-07-2017 19:34	Application	629 KB
🔒 putty.chm	04-07-2017 19:31	Compiled HTML H	277 KB
률 putty.exe	04-07-2017 19:34	Application	835 KB
puttygen.exe	File description: SSH, Telnet and Rlogin client	Application	398 KB
README.txt	Company: Simon Tatham	Text Document	2 KB
🔊 website	File version: 0.70.0.0 Date created: 04-07-2017 19:34 Size: 834 KB	Internet Shortcut	1 KB

2. Double click on puttygen.exe to open the PuttyGen Key Generator.

3.On the PuttyGen Key Generator, click on the menu FileLoad private key

🚰 PuTTY Key Generator					? ×	
File	Key	Conversions	Help			
	Load Save Save Exit	private key public key private key				
C	Genera	te a public/priva	te key pair			<u>G</u> enerate
L	.oad ai	n existing private	key file			Load
5	Save th	e generated key	,		Save p <u>u</u> blic key	<u>S</u> ave private key
P T ()	arame Type of D <u>R</u> SA Numbe	ters f key to generate <u>f</u> r of <u>b</u> its in a gene	:: <u>)</u> SA erated key:	⊜ <u>e</u> cdsa	○ ED <u>2</u> 5519	◯ SSH- <u>1</u> (RSA) 2048

4. Select the private key which has to be converted to the openssh format and click on Open.

Name	Date modified	Type S	ize			
LICENCE	04-07-2017 19 🐷	PuTTY Key Generator		×		
🏂 pageant.exe	04-07-2017 19 File	Key Conversions Help				
🛃 plink.exe	04-07-2017 19 🛒	Load private key:				×
🚰 pscp.exe	04-07-2017 19					0
🚰 psftp.exe	04-07-2017 19	$\vdash \rightarrow \land \uparrow $	s PC > New Volume (D:) > Tickets > PrivateKey	~ 0	Search PrivateKey	م ر
🔗 putty.chm	04-07-2017 19	Organize • New folde	r			□ ⑦
🛃 putty.exe	04-07-2017 19	^	Name	Date modified	Type	Size
S puttygen.exe	04-07-2017 19	 OneDrive 		Date modified	1960	Diffe
README.txt	04-07-2017 19		pgprivatekey.ppk	14-01-2020 19:06	PuTTY Private Key .	2
🔊 website	04-07-2017 19	3D Objects				
		Desktop				
		Documents				
		Downloads				
		b Music				
		Pictures				
		Videos				
		Local Disk (C:)				
		🛁 New Volume (D:				
		-	<			>
		×				
		· · · · · · · · · · · · · · · · · · ·	a Osarah ash		D. TTV Delivere March Films /	
		File nam	e: pg_Openssh.ppk	~	PuTTY Private Key Files (*.ppk) ~

5.Now from the menu click on ConversionsExport OpenSSH key

6.Save the key by clicking on Save.

🔊 Save private key as:			×
\leftarrow \rightarrow \checkmark \uparrow] > This PC > New Volume (D:) > Tickets > PrivateKey	~ ບ Se	arch PrivateKey	م
Organize Vew folder		1 1 1 1	. ?
3D Objects ^ Name ^	Date modified	Туре	Size
■ Desktop [★] pgprivatekey.ppk [★] Documents [★] Downloads	14-01-2020 19:06	PuTTY Private Key	2
Music Pictures Videos Local Disk (C:) 			
🗳 New Volume (D: 🗸 🧹			>
File name: "privatekeyOpenssh.ppk"			~
Save as type: All Files (*.*)			~
∧ Hide Folders		Save Ca	ncel

7. The generated key will be in openssh format.

Please note: There are sometimes errors encountered when connecting to sftp.wipo.int with the private key in putty format(see error below). In this case it becomes necessary to convert the key to openssh format.

current date as last extraction date in config.properties file	
2020-08-07 17:06:09 INFO ExtractionProcessor:382 - ==============================	===
com.jcraft.jsch.JSchException: The cipher 'aes256-cbc' is required, but it	is
t available.	
at com.jcraft.jsch.KeyPair.loadPPK(KeyPair.java:1081)	
at com.jcraft.jsch.KeyPair.load(KeyPair.java:615)	
at com.jcraft.jsch.KeyPair.load(KeyPair.java:561)	
at com.jcraft.jsch.IdentityFile.newInstance(IdentityFile.java:40)	
at com.jcraft.jsch.JSch.addIdentity(JSch.java:406)	
at org.wipo.wp.executor.SftpUtil.setupSFTPConnection(SftpUtil.java	:47
at org.wipo.wp.executor.SftpUtil.uploadExtractedData(SftpUtil.java	:12
at org.wipo.wp.executor.ExtractionProcessor.main(ExtractionProcess	or.
a:75)	
2020-08-07 17:06:12 ERROR ExtractionProcessor:82 - The cipher 'aes256-cbc'	is
wuired. but it is not available.	
2020-00-07 17-06-12 INEC Extraction Processor 94	