

DO NOT CALL REGISTER USING SSH KEY FOR SFTP AUTHENTICATION

The purpose of this document is to provide instructions for Access-seekers on:

- how to generate SSH keys required for SFTP Authentication
- how to provide the SSH keys to the Do Not Call Register for the purpose of connecting to an SFTP Account.

SSH Keys Generation

Generate RSA Keys for Linux

1. **Generate RSA key** on Linux with **ssh-keygen** as per example below.

It is recommended to enter a passphrase for the RSA key

```
[tsinoc@debit-inout ~]$ ssh-keygen -t rsa -b 2048

Generating public/private rsa key pair.
Enter file in which to save the key (/home/tsinoc/.ssh/id_rsa):
Enter passphrase (empty for no passphrase):
Enter same passphrase again:
Your identification has been saved in /home/tsinoc/.ssh/id_rsa.
Your public key has been saved in /home/tsinoc/.ssh/id_rsa.pub.
The key fingerprint is:
34:d9:ee:50:83:99:c5:21:70:23:01:d8:7e:c8:6b:b1 tsinoc@debit-inout
```

2. **Two files will be generated** in the example above:

PRIVATE KEY = id_rsa located in /home/tsinoc/.ssh/id_rsa
PUBLIC KEY = id_rsa.pub located in /home/tsinoc/.ssh/id_rsa.pub

3. **Save the PRIVATE and PUBLIC keys.**

Make sure you save the files in the location you remember for later use

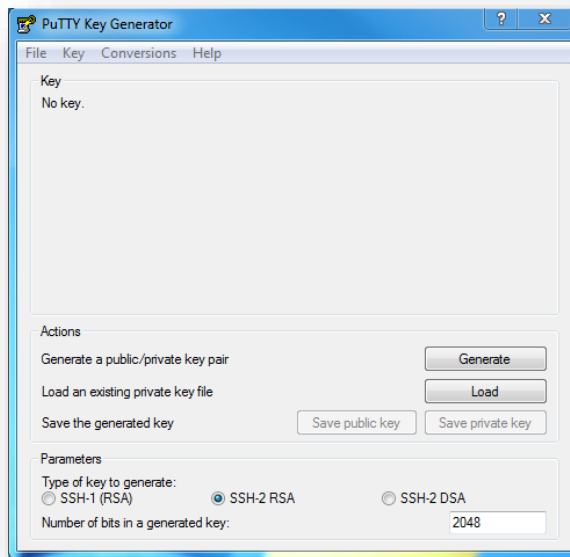
```
[tsinoc@debit-inout ~]$ cat ~tsinoc/.ssh/id_rsa.pub
```

ssh-rsa

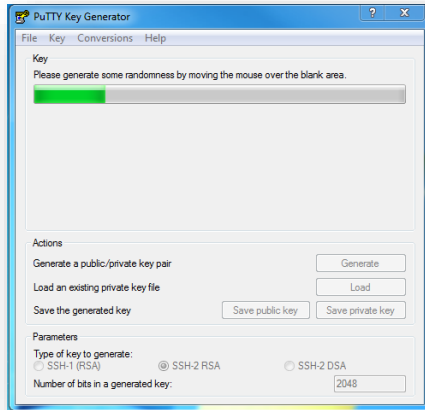
AAAAB3NzaC1yc2EAAAABIWAAAgEA7sykiS0yBPbPKfrG6F9qw8EuWXAgF1NvajvkZuXM0nhD73
dcMKIKKOFNMBf4meiEhW5hj/wpZD7LzPTqhPny88RCwG2LTGaUYyAOFJgaS5G/4GA6j5gdcmm
AbITMFWOnzlUsHRPp57Oc2CSWLMteahDBY6PS5tBkwevS/0bnh75ae7EmO3Uy6JOBCrHoHS8J5
VyjPX3y45USWidlckPMu3X42S5Wa8jcEjBk9/DQtR+K2XilH4K6bHd7UsgRCFFnCviCimKVxh
bdynv1R4PE5wybf56ZQG3n9GpSACvm6X5Jtb63lrnnDBqBNP+wEMUJkyU7lIRwvSFRQEXJij9C
2iVQIIMwBlLQGGM+oGIDbYgH7C5SxRafWZf/91RUL5JwzdUVnz2+R4as/PYzClPd40XNL/TJT
r7XJBD+O/oBoPStXEBozHOebfVs6w2AZ7lcSQGD0bSSDXmJsAncw51OP8TBucb0AVtZrrOeRw
v6zmtM/BJwJYNE/KEXWtN4Tn/9mQzzciikJJW5I4rNsSbgymJ8GnBlgxTWXbWdauxafyUPMwMv
w4ii7u5VRA/ibrYS2172cVKj4XTxR9sCQpO08w52pKBAKxqoJSh804iiI33aAHcQSWVDe4aH7a/
Rmc6fuzW6aubxB4YsLi7gxmjuqer2UkSWRus9IehdCDok= tsinoc@debit-inout

Generate RSA Keys on Windows using PuTTY Key Generator

1. **Download** the executable **PuTTYGen** file from:
<http://the.earth.li/~sgtatham/putty/latest/x86/puttygen.exe>
2. Go to **Windows > Search Programs and files > puttygen.exe**.



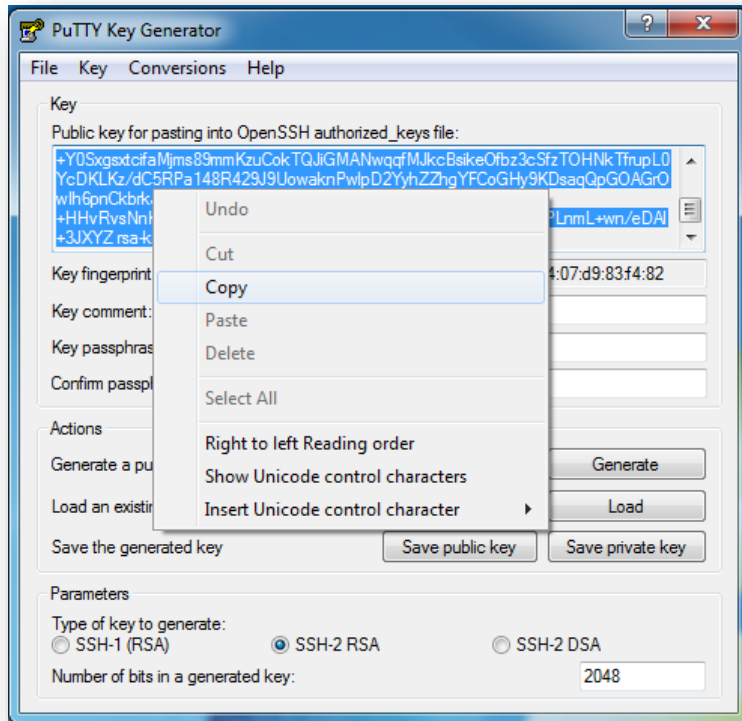
3. Make sure the **Type of key to generate** is **SSH-2 RSA** and the **number of bits in a generated key** is **2048** (as per above).
Click > Generate.



Make sure to constantly move the mouse around, otherwise key generation will stall

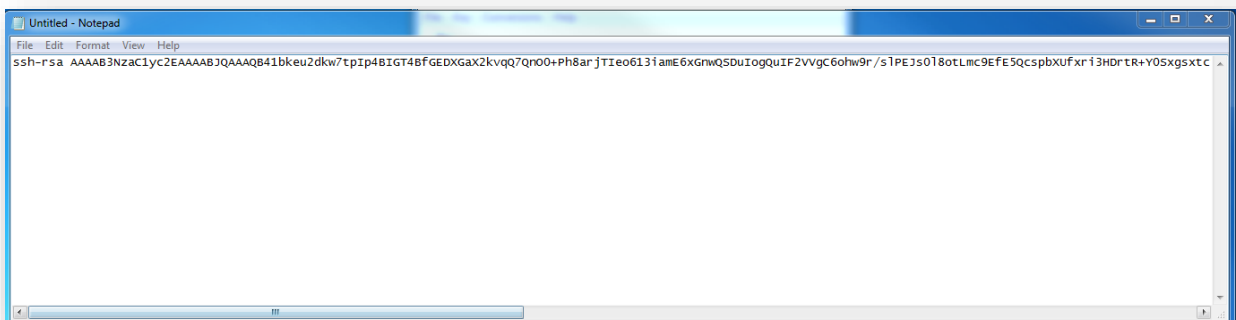
4. Click on '**Save public key**' then **select** and **Copy the Public key** (as per below).

It is recommended to enter a passphrase for the keys generated



5. **Open Notepad** and **paste** the copied **public key**.
6. Click **Format** > Make sure that **Word Wrap** under the Format menu is **UNCHECKED**.
7. **Save** the **public key**.

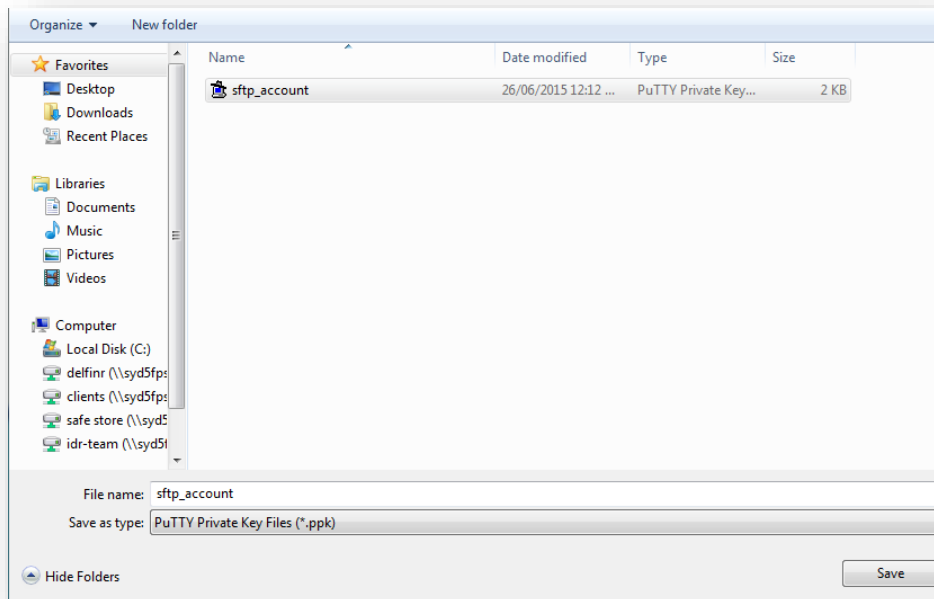
Save the file to the location you will remember for later use



8. Last time from PuttyGen is to save your private Key.

Click on '**Save private key**'.

Save the file to the location you will remember for later use



Public Key Delivery

The saved **PUBLIC KEY** should be provided to the Do not Call Register by **uploading** it to the **Upload folder** of the SFTP server after connecting to the designated account.

Both Public and Private keys will be later used to connect to the SFTP Server

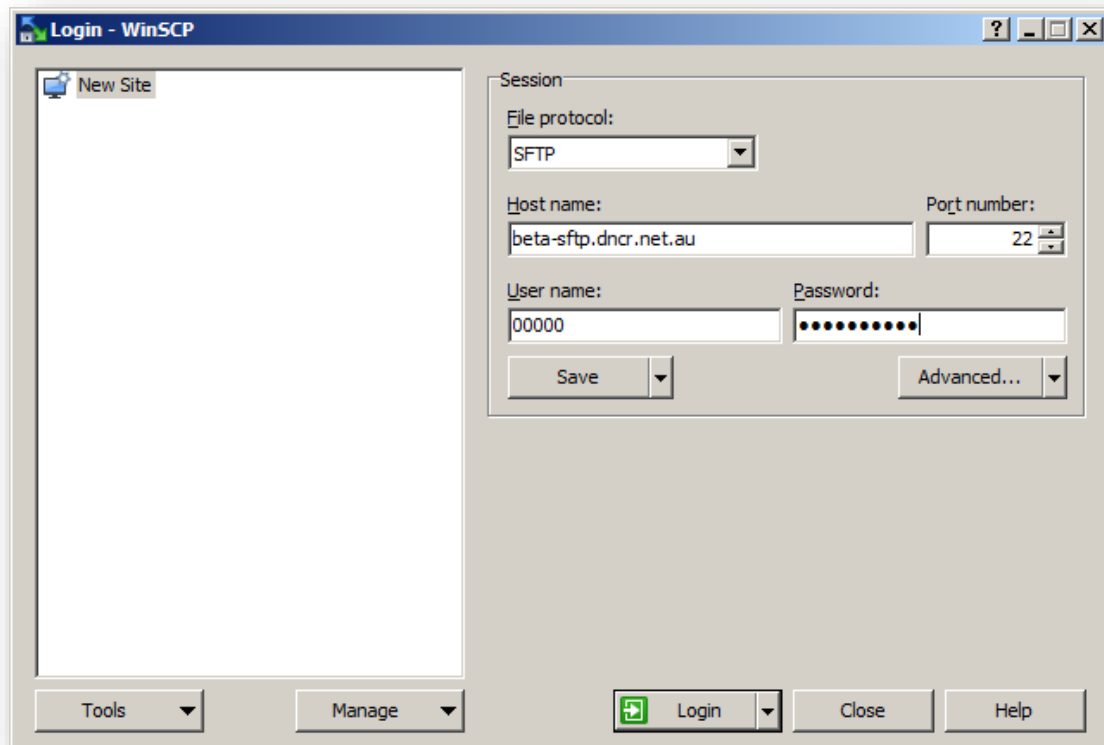
Uploading Public Key on Linux

1. **Connect** to the **SFTP** - **sftp.donotcall.gov.au** - server using your **username** and **password**.
2. **Change** to the **Upload** directory.
3. **Upload Public Key**.

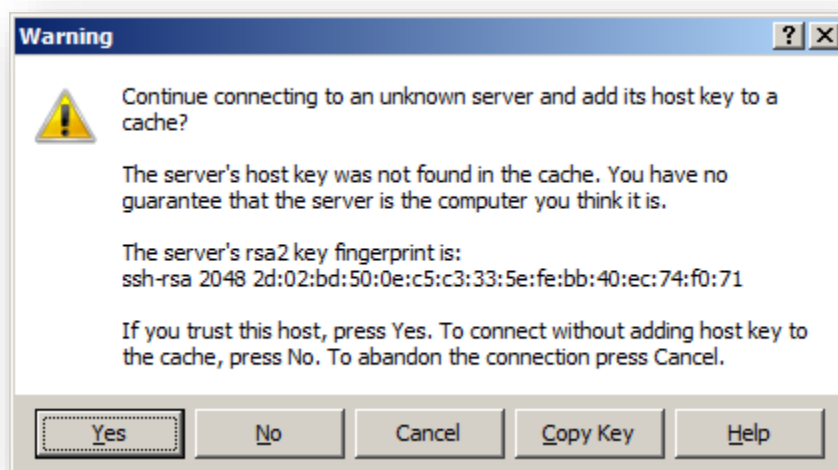
```
salmat@ubuntu:~/.ssh$ sftp 00000@sftp.donotcall.gov.au
00000@sftp.donotcall.gov.au's password:
Connected to sftp.donotcall.gov.au.
sftp> dir
archive  download  upload
sftp> cd upload
sftp> put id_rsa.pub
Uploading id_rsa.pub to /upload/id_rsa.pub
id_rsa.pub          100% 399      0.4KB/s   00:01
sftp>
```

Uploading Public Key on Windows using WinSCP

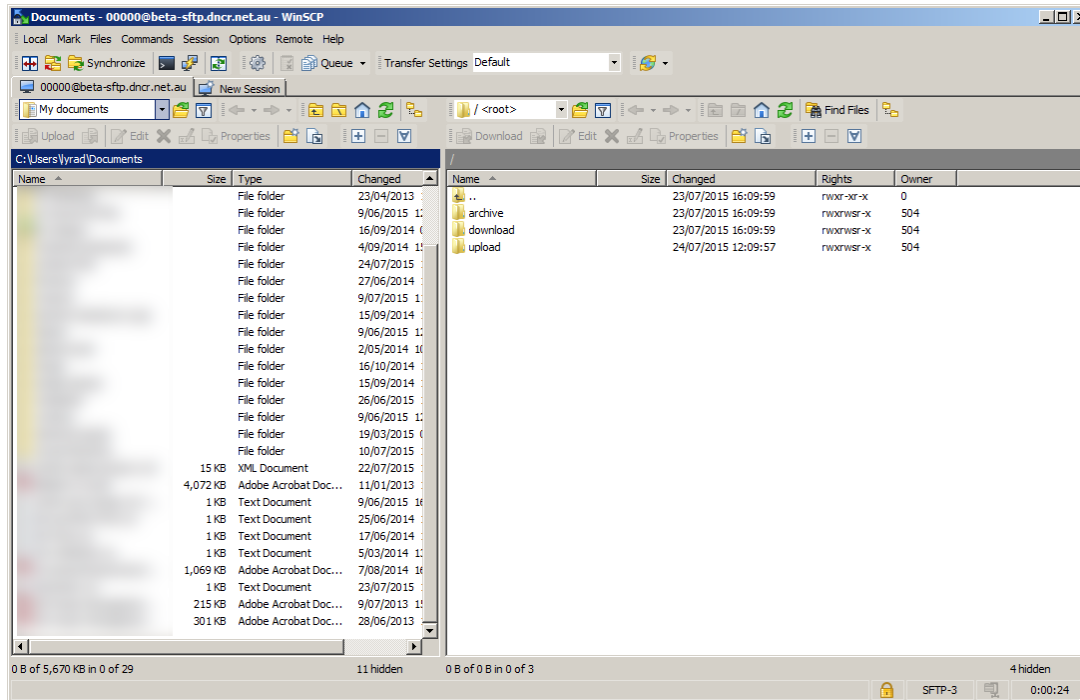
1. Connect to the SFTP - sftp.dnocr.net.au server using your **username** and **password**.



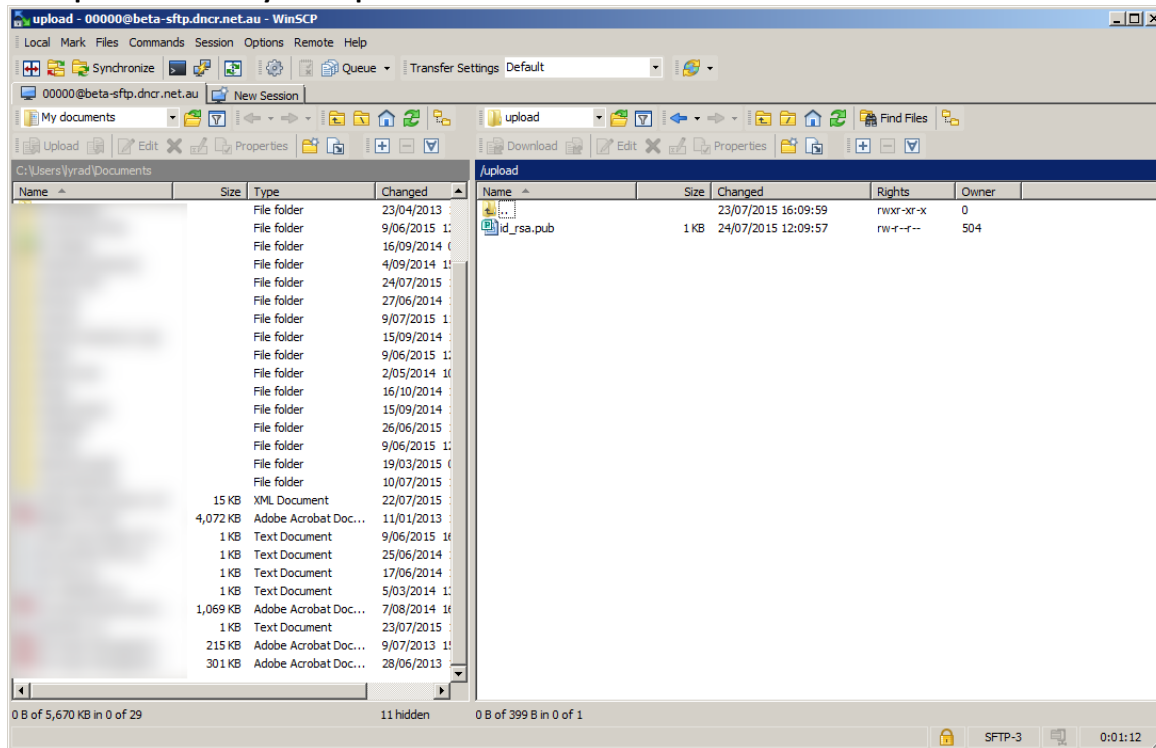
2. Click **Yes** on the **Warning** below.



3. Go to the **Upload** directory.



4. Upload Public Key into Upload folder.



upload - 00000@beta-sftp.dnrcr.net.au - WinSCP

Local Mark Files Commands Session Options Remote Help

Synchronize Queue Transfer Settings Default

00000@beta-sftp.dnrcr.net.au New Session

My documents upload

Upload Download Edit Properties Find Files

Name	Size	Type	Changed
File folder			23/04/2013
File folder			9/06/2015 1
File folder			16/09/2014 0
File folder			4/09/2014 1
File folder			24/07/2015
File folder			27/06/2014
File folder			9/07/2015 1
File folder			15/09/2014
File folder			9/06/2015 1
File folder			2/05/2014 10
File folder			16/10/2014
File folder			15/09/2014
File folder			26/06/2015
File folder			9/06/2015 1
File folder			19/03/2015 0
File folder			10/07/2015
15 KB XML Document			22/07/2015
4,072 KB Adobe Acrobat Doc...			11/01/2013
1 KB Text Document			9/06/2015 14
1 KB Text Document			25/06/2014
1 KB Text Document			17/06/2014
1 KB Text Document			5/03/2014 1
1,069 KB Adobe Acrobat Doc...			7/08/2014 14
1 KB Text Document			23/07/2015
215 KB Adobe Acrobat Doc...			9/07/2013 1
301 KB Adobe Acrobat Doc...			28/06/2013

Name	Size	Changed	Rights	Owner
id_rsa.pub	1 KB	24/07/2015 12:09:57	rw-r--r--	504

0 B of 5,670 KB in 0 of 29 11 hidden 0 B of 399 B in 0 of 1

SFTP-3 0:01:12