

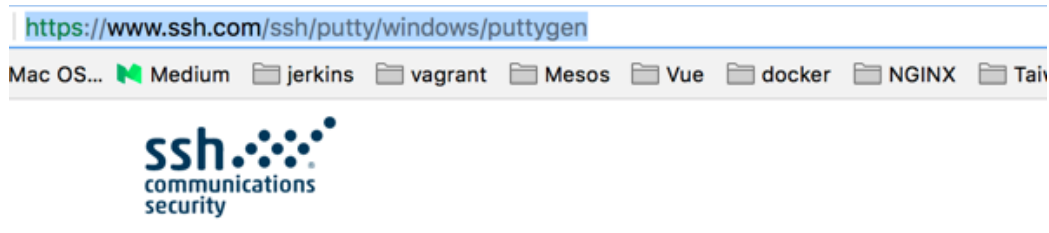
Manual



Generate SSH-KEY

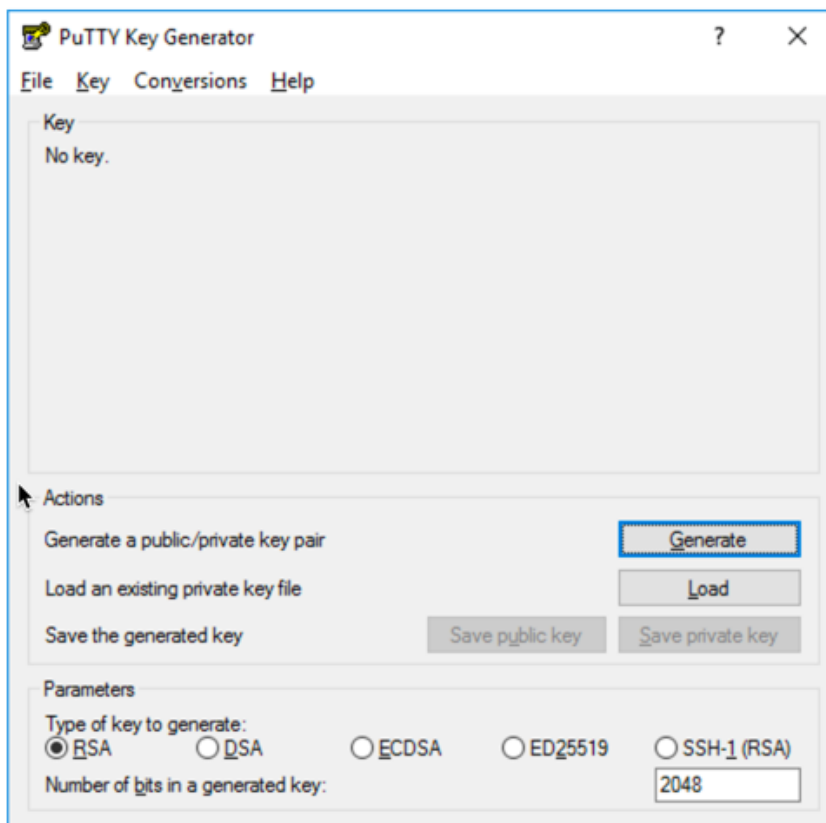
Prerequisite

For windows download puttygen from url <https://www.ssh.com/ssh/putty/windows/puttygen>



RUNNING PUTTYGEN

Go to Windows **Start menu** → **All Programs** → **PuTTY** → **PuTTYgen**.



Generate Key/Import to GCloud

1. Generate Key

a. For MAC OS X:

- i. Generate key by command: `ssh-keygen -t rsa -f ~/.ssh/[filename] -C "[comment]"` and input passphrase for security



```
praparn — -bash — 80x24
[mac-clone:~ praparn$ ssh-keygen -t rsa -f ~/.ssh/gcloud_key -C praparn_mac
Generating public/private rsa key pair.
Created directory '/Users/praparn/.ssh'.
[Enter passphrase (empty for no passphrase):
[Enter same passphrase again:
Your identification has been saved in /Users/praparn/.ssh/gcloud_key.
Your public key has been saved in /Users/praparn/.ssh/gcloud_key.pub.
The key fingerprint is:
SHA256:XbYUJE0deaABH8T0ko/XyZHjH1VrTEHJk6VNx1zJYm0 praparn_mac
The key's randomart image is:
+----[RSA 2048]-----+
|      . =Bo++==%|
|      ..*++..E=|
|      +o =0* =|
|      o.O++.. +.|
|      S+..+..|
|      . o = .|
|      . . .|
|      . . .|
+----[SHA256]-----+
[mac-clone:~ praparn$
```

- ii. Check private/public key on path with command: `ls -lh ~/.ssh/`

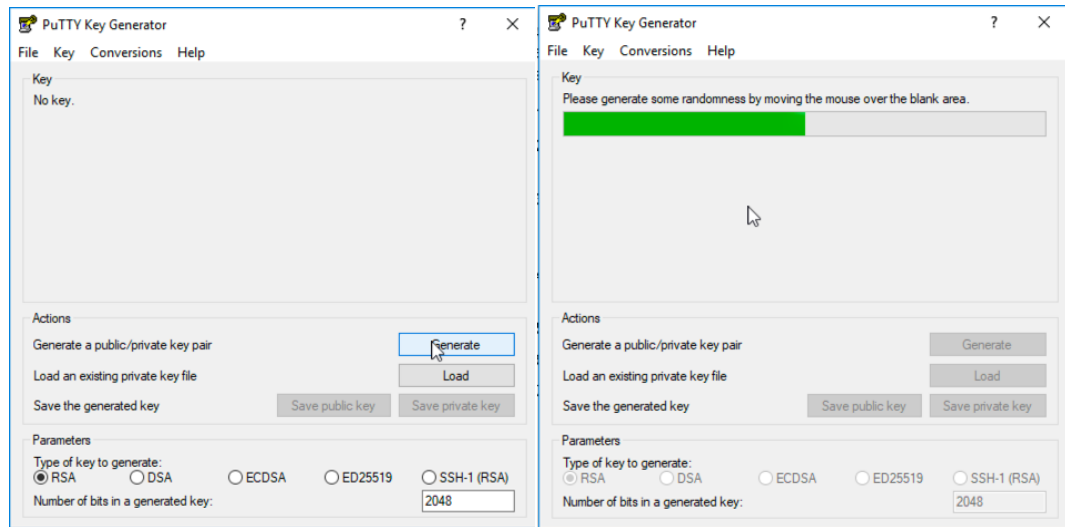
```
mac-clone:~ praparn$ cd ~/.ssh
mac-clone:~.ssh praparn$ ls
gcloud_key      gcloud_key.pub
mac-clone:~.ssh praparn$ more gcloud_key.pub
ssh-rsa AAAAB3NzaC1yc2EAAAADAQABAAQCSgtSZiUGUH0yv/jVS/ApOtT0QNemfxdBdPawvFHq
ceuuL/VMt4u5I0DniOZGSXMH2ik3UE6KcM6f0xet9zFIW0+8n+CED4VklN/hKicHk4LDtzGJS4GxZ12
CjLnxv4HVvS73YP3ZhfiJHyH+UikS/5DF+dLvmWEgUEorEbd+Lb5tvKVGoHuXRqhOE+vSTugyxihb9D1
0ntkF85akkQqTtWi5t96P/AXGsdUr2ss+ve18cZlv/zxU8u9AOMZq891MsRwoZXQsecg53uUxmTmDrxP
SGm/tUif4WJkbejjfQhLZ0JGBzPLs8PJ7GlpkDjPH4xfzVqZfZWFRjf2jHGT praparn_mac
mac-clone:~.ssh praparn$
```

```
mac-clone:~.ssh praparn$ more gcloud_key
-----BEGIN RSA PRIVATE KEY-----
Proc-Type: 4,ENCRYPTED
DEK-Info: AES-128-CBC,60B0C764B677DF16E576BEA030FFB8F2

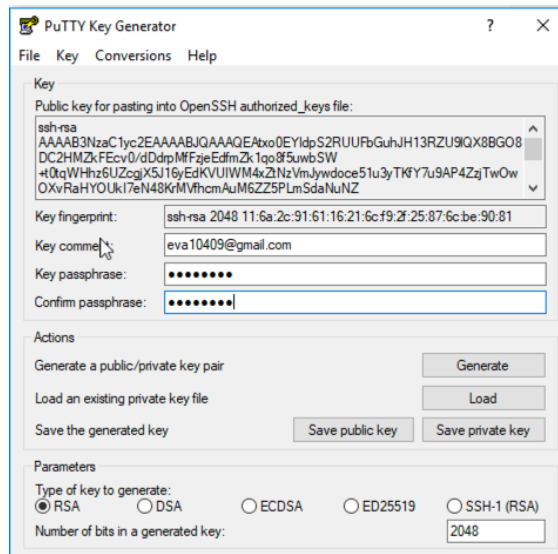
J0SUQJsBpfdeuShweyXDmeumy9i6xeSGa/N757Dx3NhcfwY5HWGR+FZE5/FaUcG
8hZUMIaaZvorMTuvXID6kky23UTMeiLB1Ju3zNZmU6EzCR7zuKlDDbX9LgUVDzc6
aryNhf6+DIDIs8zE/dnMPlrSkUU7Y0bNjZODQL1G39EaZgXiv36ciIJDETP0BH0
wPzhNIxaF42DrDxk9Scpe53zeCL1R8G4A9oMr/LL76C8xOJmLFgymeCxm0SgxGP4
K5z/vreUjJugwU6x4bTWxc9UmxKBtRNHCyC1Y4y2wje3vL/fk0SXWx7NKtiePg/I
o6Q0DmjRdAS5r3BnOG3dejVvBH05mYGzKV1XxLUMvFIKtXGMS1KwZ7AcUBxBM9hG
c48Vjn60jsTkJiB0emaSFQunVvs+snzx8GRDDsSRTNDKZgFzVSUT5yZcLstZZELZ
FX6ewBaTi7A08W1KvgDEeB1Qv/lpXsTvYvF2BXqoW3byjHnUQHNIkqMu7BQoIY7q
d8nhVEVjHu+E/n/e2LAATfnyWiaFYBpudHU1a4rcGwnSc3WBM24pnw1QzZRONLHJ
rxLiX3TKScVszi9+5CI5U+qRco3svatD2VcM2hQG437Dj1bsvYlc7YmVmwBVZWD
nAhWHk1KjQuoGgjevpHasdfVvEElAnBydiMYerwliKngqmyeEHo6cXvGBemB2V
FFN8g5NSjSE1pwbbvb8Cs3eBKmfLioCIQpYptqvj3fFNitF2z04ysxbf/eb/L/
vffPpdrbeQIqdx38Ja/6Ya8CaU3N39LxenmCepCk6CAteglVRo7YCBjYtri8gzZ
tMkiiSdHjIXFxlTVOgv/3o3qLj04+k0ODLxn6zDACiCBEEZ/xi8GmhpYCYGU0GPP
sFiLRNivaAOxakMLqMMhdAxh01jk8kQEEZK6PfktHwh9ggWfzon1ADTj++g/Evalp
4ZB8ZytNaPB1mbBe55ILHFyb+4GfxMe+/f0TDRgTJwd2xnVZ3N82smxSug6EXwkJ
DK7UsBcyxjPkVypjTmAtIgDbZd7F/Jx1GRGTPMEdeGwxqvFtfyf5CnSi9yicZe
juM+BJD/RyXqahhHmO/XjFHVio3YSr1IekzyIWhbpZoamHczyFZtnRpx00EQwxC
r+J/uyE0b/bHx00RPStiq40v0yNVI1fN5etGQ70IvpFbhdq8EUXxCytWsewvGnn
8UZVmpjCLVYENppluRle3A4RqZtaevaIxeU+S8YEKvty/N9He+x19v0ArYWEW05e
jkVBjWxeaa10e7QeNf2DqUH1Hwvcnt4S79ins8rFJnGGgOTJs0UFmxsk8QV7gLxW
J3vPR5/mJx6pB+2JJleBuW0pJKfMeU3J5ErwBzFFF/vkHkiQN/TUIKJ1Yt57aQR1
k8ccZ6d1XiWC13KpJMVQE0r4bI+t/O+2KSK0xPd9YhV9me12zdJN4itgEqRhayTU
B39znGIC11ZRfs8bI2xzGVjWnkf8WmwrTA9LzfZaU/bwzBV5FIuyT6em3IGIz2+C
qhRJXGZbCpHSeQo2KV0DFz0CF9/gzWpPjJLUX0QuiT8qNmcYCIQ35kiHoli5cTG
-----END RSA PRIVATE KEY-----
mac-clone:~.ssh praparn$
```

b. For Windows OS:

- i. Download and install "puttygen" <https://www.ssh.com/ssh/putty/windows/puttygen>
- ii. Open puttygen and click "generate"



- iii. Input information for key
 1. Key comment: <input username>
 2. Key passphrase: <input passphrase for protect key>



- iv. Click "Save private key" for key private key (.ppk) to "C:\Users\<user>\.ssh"
- v. Click "Save public key" for import to Google Cloud (.crt) to C:\Users\<user>\.ssh"

