1. Go to PowerShell command line and type ssh-keygen -b 4069:

```
PS C:\Users\muhammad.faraz> ssh-keygen -b 4096
```

2. When prompted for a filename or phrase make sure to leave it blank:

```
Generating public/private rsa key pair.
Enter file in which to save the key (C:\Users\muhammad.faraz/.ssh/id_rsa):
Enter passphrase (empty for no passphrase):
Enter same passphrase again:
```

3. The complete output should look like this:

```
PS C:\Users\muhammad.faraz> ssh-keygen -b 4096
Generating public/private rsa key pair.
Enter file in which to save the key (C:\Users\muhammad.faraz/.ssh/id_rsa):
Enter passphrase (empty for no passphrase):
Enter same passphrase again:
Your identification has been saved in C:\Users\muhammad.faraz/.ssh/id_rsa.
Your public key has been saved in C:\Users\muhammad.faraz/.ssh/id_rsa.pub.
The key fingerprint is:
SHA256:ybe1hLGhX/RwaJX9A32CvRVpNN76kRMS6shxnJSEJls afiniti\muhammad.faraz@WDC-GD-MUHAMMAD
The key's randomart image is:
+---[RSA 4096]----+
|        oo.++*o|
|       . Eo.+++++|
|        =.o==.+*+|
|       o.o=B +oo+|
|        So+.+ o+.|
|        o = . .o|
|        o .   .|
|              |
|              |
+----[SHA256]-----+
PS C:\Users\muhammad.faraz> cd .ssh
PS C:\Users\muhammad.faraz\.ssh> ls -alh
Get-ChildItem: A parameter cannot be found that matches parameter name 'alh'.
PS C:\Users\muhammad.faraz\.ssh> ls


    Directory: C:\Users\muhammad.faraz\.ssh


Mode                 LastWriteTime         Length Name
----                 -------------         ------ ----
-a---          10/31/2022 12:22 PM           3414 id_rsa
-a---          10/31/2022 12:22 PM            765 id_rsa.pub
-a---          10/25/2022  5:55 PM           1615 known_hosts
```

4. Navigate to the .ssh directory and get the list of files by dir or ls

5. You can cat id_rsa.pub file for the key, copy the key and go to your Linux machine.
6. Navigate to /home/psg/.ssh
    a. If the directory does not exist you can make it by mkdir .ssh (chmod 700 ~/.ssh)
7. vi authorized_keys
8. Paste the key at the end if there are already any keys in there
9. Write and quit with ->escape →:wq
10. chmod 600 authorized_keys
11. Now you should be able to ssh into this machine without a password.