SSH Directions

Mac/Linux:

- 1. Go into your ~/.ssh folder (cd ~/.ssh)
- If you do not already have an ssh keypair, generate your ssh key, and insert your desired username instead of <username>.
 - a. ssh-keygen -t rsa -b 4096 -C "<username>"
- 3. Accept the default filename (probably id_rsa.pub), and enter a passphrase protecting this key.
- 4. You should now see two new files in your directory <filename> and <filename>.pub
 - a. <filename> is your private key
 - b. <filename>.pub is your public key
- 5. If you wish, you can use the ssh-add command so that you don't have to re-enter the passphrase each time you use it.

Windows:

- 1. Install Git Bash from here: <u>https://git-scm.com/download/win</u>
- 2. Follow steps 2–5 above.

You can also use PuTTY or Windows Powershell if you don't want to use the Git Bash shell. Plenty of tutorials on how to use these exist online.

All:

- 1. Go to your Google Cloud Console and go to your Security I project.
 - a. Make sure you're on your Columbia account, otherwise you might not be able to find your Security I project.
 - b. Also make sure to select from the "COLUMBIA.EDU" organization.

Select from	n COLUMBIA.EDU 🔻	NEW PROJECT	:
Q Search pro	jects and folders		
RECENT	ALL		

- 2. Go to Compute Engine > VM instances.
- 3. Make sure that the VM instance is off.
- 4. Click the name of your VM instance.
- 5. Click "Edit"
- 6. Scroll all the way down until you see "SSH Keys"
- 7. Click "Show and Edit".

8. Copy and Paste the public key (the contents of the .pub file) that you generated before.

When checked, pro	ject-wide SSH keys cannot access this instance Learn more
You have 0 SSH keys	
hacktheplanet	KLLYJSIASG/7EXCgeK4/qPmcZYy1WrX2ZyJ6md9JG FrhVnKNTKyg1ilwTlxWe02UQ9u7/NeVWRWOe1t64V a3mj9/DYwNvbFGXlp+iC1CF179Xs5F1uRh1S3mpeY fjZaksxMhGIqeORVOHt3s2F4LAFzw+EmSOfGVnNCn fjIkhRXQfz5rDi7l2k4G7zaFSQeJMkYyXoI4tTlh2 w2YpKdn9FRjIm8xxMiEBa0W9bvZm81zVbU2UWQRZY 7zP9s1vZc0RWwv/8+XmC3SJ0Q== hacktheplanet
	+ Add item

Do NOT copy the private key

- 9. Save the changes.
- 10. Start the VM.
- 11. You're now all set to SSH into your VM.
 - a. Linux/Mac/git bash on Windows: ssh <username>@<external-vm-ip> If you did not use ssh-add, you'll be prompted for a passphrase; this should be the passphrase you used to protect the key, not the login password.