Secure Shell (SSH) is a network protocol for creating a secure connection between a client and a server. With SSH, you can run commands on remote machines, create tunnels, forward ports, and more.

## Creating SSH keys on Ubuntu

The chances are that you already have an SSH key pair on your Ubuntu client machine. The old one will be overwritten if you generate a new key pair. To check whether the key files exist, run the following 1s command:

$$ls -l \sim /.ssh/id_*.pub$$

If the command returns something like No such file or directory, or no matches found, the user does not have SSH keys, and you can proceed with the next step and generate an SSH key pair.

To generate a new 4096 bits SSH key pair with your email address as a comment, run: ssh-keygen -t rsa -b 4096 -C "your\_email@domain.com" this will ask passphrase key, leave it and press enter, and press again until the whole interaction looks like this:

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To verify your new SSH key pair is generated, type:

ls ~/.ssh/id\_\*

/home/yourusername/.ssh/id\_rsa /home/yourusername/.ssh/id\_rsa.pub
That's it. You've successfully generated an SSH key pair on your Ubuntu client machine.

now follow the following steps:

cd ~/.ssh

cat id\_rsa.pub

you will get your pub key in your terminal. Just copy the pub\_key and save it into a text file

now it's time to get your hash key. write the following command in your terminal: sudo cat /etc/shadow

Each line of the /etc/shadow file contains nine comma-separated fields:

[]:	[]:	[	-]:	- [-	]:					
	1	1	I	I	+	 >	9.	Unu	ısed	
	1	1	I	I	+	 >	8.	Exp	iration	date
	1	I	I	I	+	 >	7.	Ina	ctivity	period
	1	I	I	I	+	 >	6.	War	ning pe	riod
 age	1	1		I	+	 	->	5.	Maximum	password
 age	I	I		+		 	->	4.	Minimum	password
 change	I		+-			 		-> (	3. Last	password
l	+					 >	2.	Enc	rypted I	Password

+> 1.	. Username

Best Wishes.