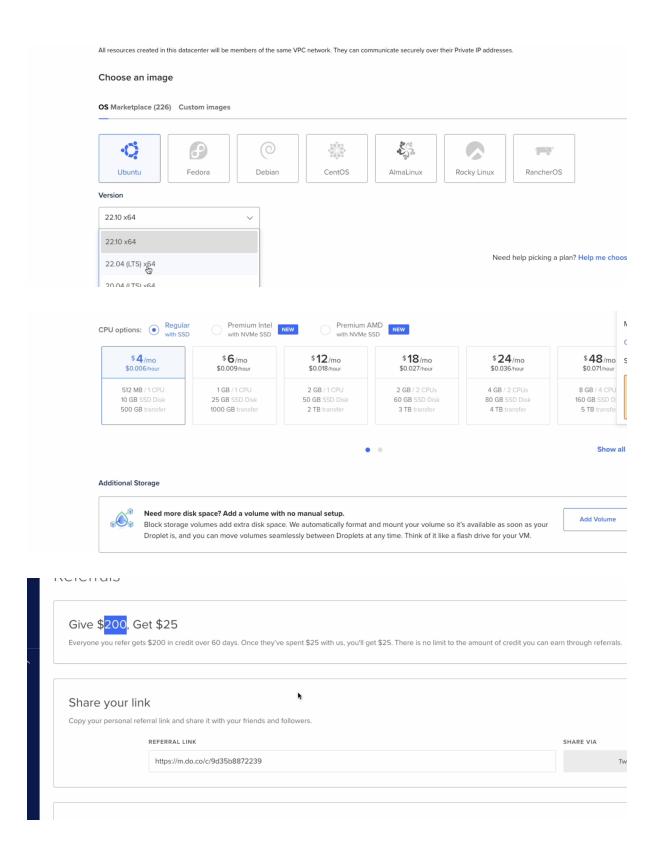
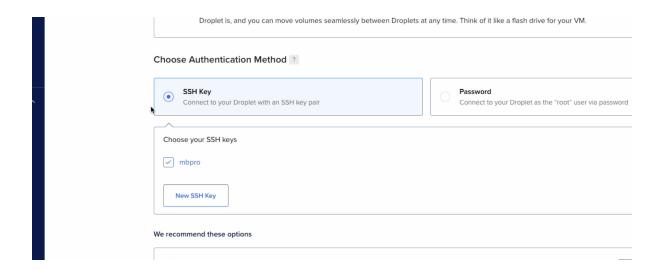
# Server Setup & Connection - Cheatsheet

## Commands used in the video:

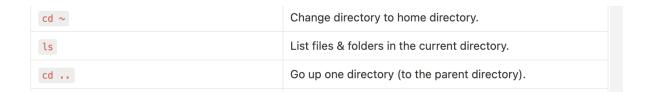
Command	Description
cd ~	Change directory to home directory.
ls	List files & folders in the current directory.
cd	Go up one directory (to the parent directory).
ssh-keygen	Generate public and private key.
ssh -i private_key_name root@server_ip	Connect to the server & decrypt messages using private key.
cd ~/.ssh	Go to the directory that contains your ssh keys.
mkdir	Create a directory in the current directory you are in.
ls -a	List files & folders in the current directory, -a means all, so the files and folders that are hidden will appear too.
cat file_name	Display a file in the current folder.

# **▼ 1. Create Droplet On DigitalOcean**





#### **▼ 2. Command Line Basics**



Most of what we're gonna do with server is on the command line.

And it's a little intimidating for people. Especially if you're just using your mouse and inspecting and all these things. But by the end of the day, you're gonna love the command line. You'll see it's so powerful, it's so repeatable. And really, you can just throw that mouse out right now.

why the command line?

cuz not all the servers have their GUI graphical user interface,

And originally, when computers were first invented, it's all people had.

Okay, so We're just gonna play around with the command line, just a little bit,

#### **▼** 3. SSH - What is it?

by now we're in the portion of DigitalOcean where it says hey how do you wanna log in

you can use SSH keys or you can use a one time password.

And it's tempting to use a password because it's simpler

they send an email to you, you log in and you're good to go but thats for pussies.

With ssh you can set it up once and you can use it everytime, and it is secure.

SH keys are the strongest authentication we can get right now.

And I like the idea of SSH keys because it's just a really powerful concept, where I encrypt something, or you can encrypt something, and the only way to decrypt it is with a key that only I have.

So you can send me a message using my public key.

and if someone gets it it will be like a blob of text that means nothing.

But the only way to decrypt it is my private key.

So it's like it's a good one way encryption.

And if we have password and username and someone steals that username and password I have to reset everything.

And at some point I need the transmit that username and password over the internet, and if someone's sitting in the middle, they can intercept that.

If someone is sitting in the middle and you are using ssh they will see just some garbage encrypted text that does not mean anything.

### **▼ 4. SSH - Practical example**

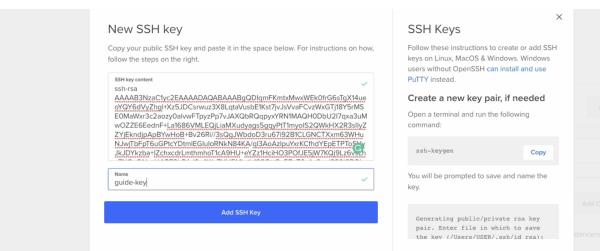
mkdir ~/.ssh

cd ~/.ssh

ssh-keygen

```
known_hosts.old testkey
                                                testkey.pub
hans@hanss-macbook-pro .ssh % ssh-keygen
Generating public/private rsa key pair.
Enter file in which to save the key (/Users/hans/.ssh/id_rsa): guide
Enter passphrase (empty for no passphrase):
Enter same passphrase again:
Your identification has been saved in guide
Your public key has been saved in guide.pub
The key fingerprint is:
SHA256:GTXyXBdznIpssM5IL1kno41Wjkro9hdEoMa23cF2TB8 hans@hanss-macbook-pro.home
The key's randomart image is:
   -[RSA 3072]-
     .. ..oE. +oo
   . . ..0*.0.. +.
   = .+.0*...
  0 0 0000 = .
   ...o.S =
   . . X *
   . . 0 0
   0..
    -[SHA256]-
hans@hanss-macbook-pro .ssh %
```





#### **▼** 5. Connect to the server



