How to Make Your Own TF2 Server

By therealbumface

How to Use This Guide

- Yellow Text is a hyperlink, for a download or video
- Red Arrows indicate hyperlinked images
- Blue Background is a Bash Script







Why?

- Increase Your <u>Skill Stack</u>
- Create Your Own Community Server
- Contribute to the TF2 Community
- Spread Positive Vibes
- Make the World a Better Place!

Desktop Apps

- 1. Browser (Brave)
- 2. Text Editor (Sublime Text or Atom.io)
- 3. Steam
- 4. TF2
- 5. Putty / PuttyGen / Pageant
- 6. FileZilla
- 7. 7-Zip

Download Links



Mobile Apps

- 1. Steam Mobile Authenticator (2FA)
- 2. ProtonMail (for email)
- 3. Authy (2FA)

Download Links



Accounts

- 1. Steam (to play the game)
- 2. Digital Ocean (to host your server)
- 3. Email (ProtonMail is good)

Download Links



Tutorial I Learned From

1. Run Your Own Custom TF2 Server for CHEAP! - Video Tutorial by Aar



2. How to Install a TF2 Server on a VPS - Text Tutorial by Aar

How to Install a TF2 Server on a VPS

Written by Aaron "Aar" P. Last updated November 12, 2021

This guide is meant to be used in conjunction with this video.

1. Log in to your DigitalOcean account or sign up with Aar's referral link. You will need to have a payment method on your account to make your own server, such as a debit or credit card. Aar's referral link gives you \$100.00 free credit for a few months, but you still need a credit card.

2. Click "New Project" on the left panel.

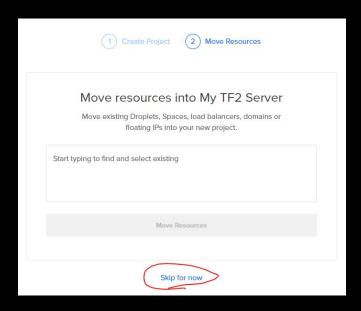


3. Enter a name, description, and reason for your server. Then click

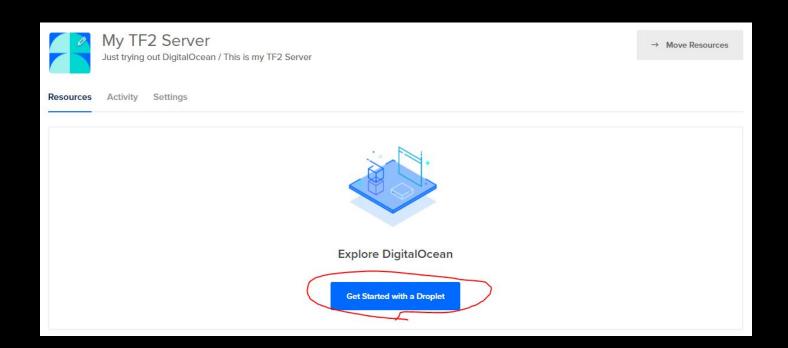
"Create Project".

	Create ne	ew project
Name your pr	oject	
My TF2 Ser	/er	✓
Add a descrip Helpful for teams	tion or differentiating between project	s with similar names.
Enter description This is my T		
Tell us what it This will help us t	s for provide a more relevant experies	nce.
Just trying o	ut DigitalOcean	* 🗸

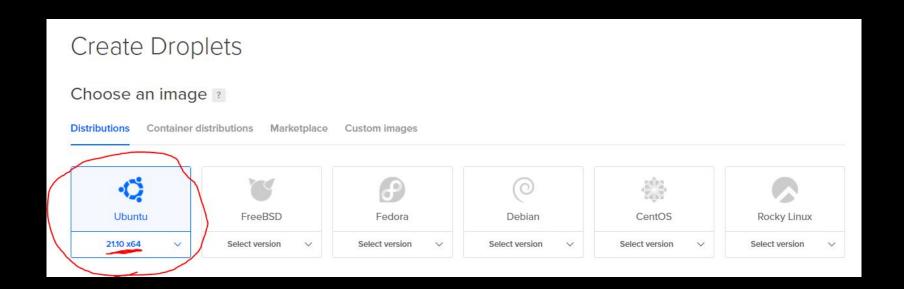
4. Click "Skip for now" when asked about moving resources.



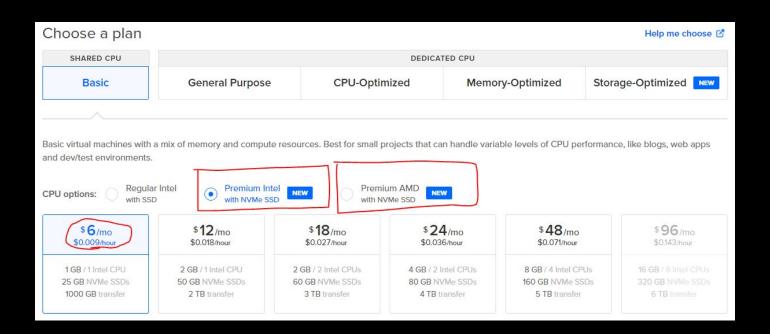
5. Click "Get Started with a Droplet".



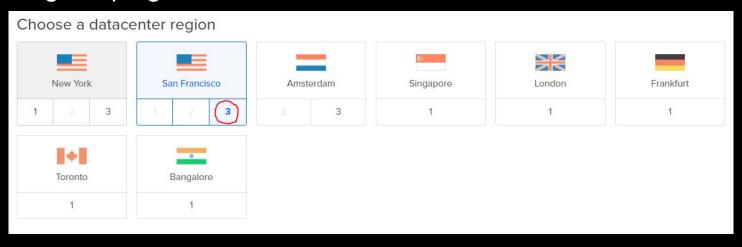
6. Select the latest Ubuntu Distribution. I chose Ubuntu 21.10 x64.



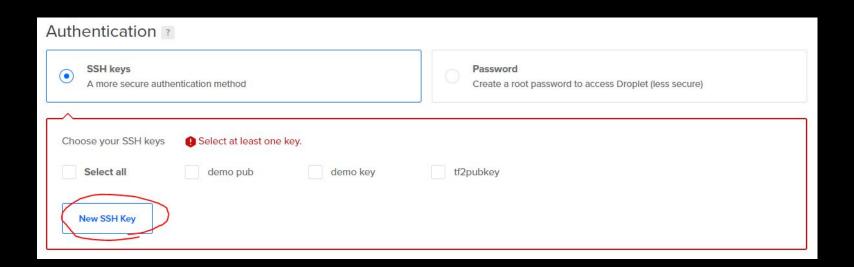
7. Select the cheapest option (\$6/mo), either Premium Intel or AMD.



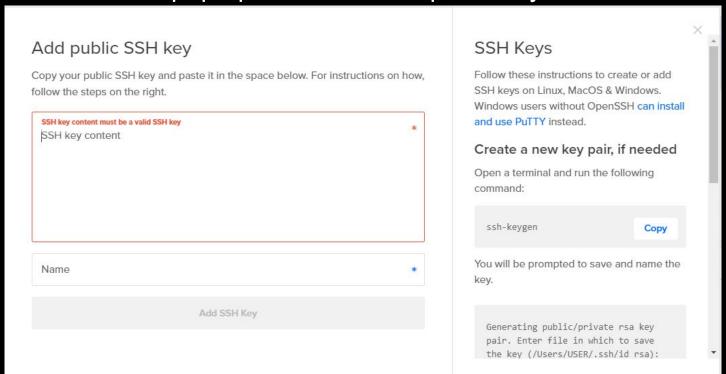
8. Choose a datacenter region. I chose San Francisco (3). This is where your server will be located, so pick one close to where you live if you want good ping.



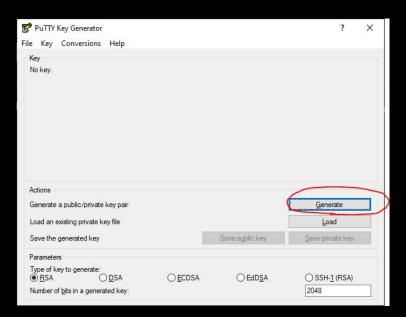
9. Under "Authentication", click "New SSH Key".



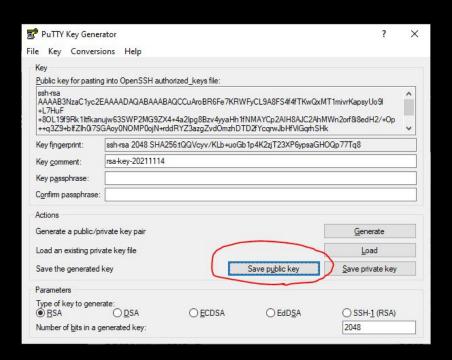
10. This window will pop up. We will now open PuttyGen.



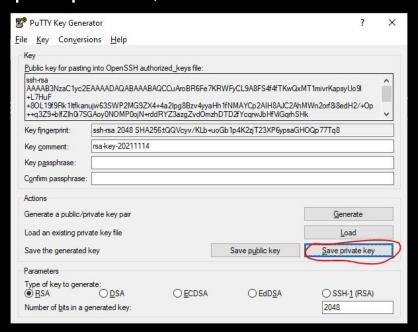
11. Click "Generate". It will ask you to move your mouse around to generate randomness. Move your mouse around when prompted.



12. Click "Save public key". Name the key "myPubTF2".



13. Click "Save private key". Name the key "myPrivTF2.ppk". You can choose to use a passphrase; I choose not to for ease of use.

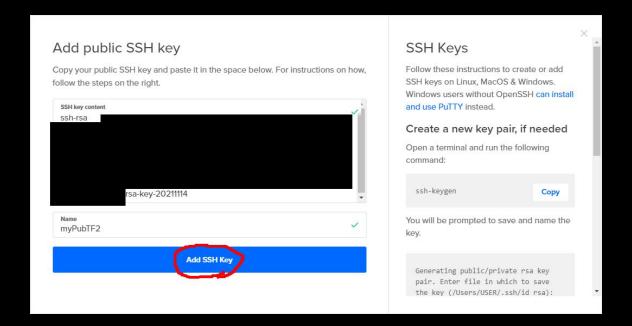


Ctrl+V to paste.

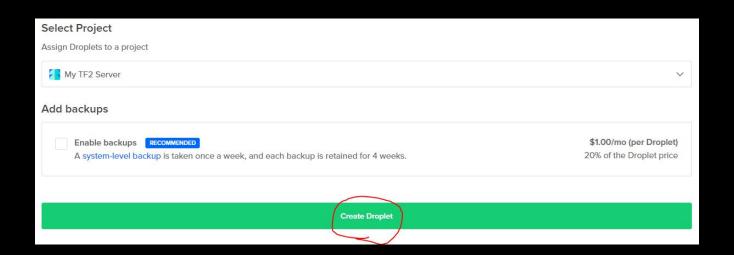
14. Right click inside the Public Key box. Click "Select All". Press Ctrl+C to copy this text. Go back to the "Add public SSH key", and press

PuTTY Key Generator Conversions Help AAAAB3NzaC1vc2EAAAADAQABAAABAQCCuAroBRI +80L19f9Rk1ltfkanujw63SWP2MG9ZX4+4a2lpg8Bzv ++q3Z9+blfZlh0i7SGAoy0NOMP0ojN+rddRYZ3azgZvc Cut Сору ssh-rsa 2048 SHA256.tQQVcvv/F Key fingerprint: Paste rsa-key-20211114 Key comment: Delete Key passphrase: Select All Confirm passphrase: Right to left Reading order Actions Show Unicode control characters Generate a public/private key pair Insert Unicode control character Load an existing private key file Save the generated key Save public key Save private key Parameters. Type of key to generate: O ECDSA ○ EdDSA O SSH-1 (RSA) 2048 Number of bits in a generated key:

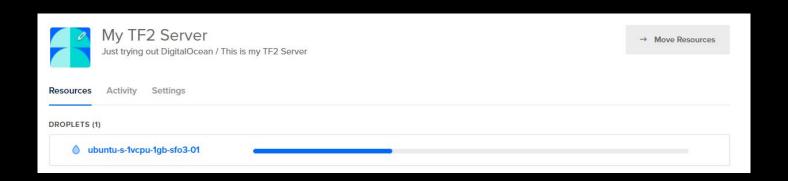
15. Name your public SSH Key "myPubTF2". FYI I have blacked out my SSH Key. Click "Add SSH Key".



16. Click "Create Droplet".



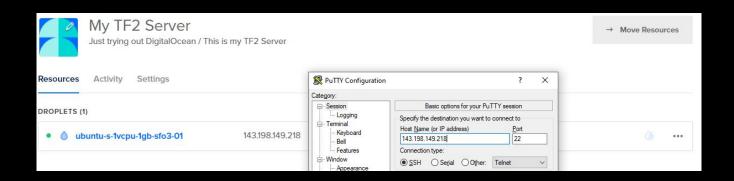
17. Wait for the Droplet to finish loading.



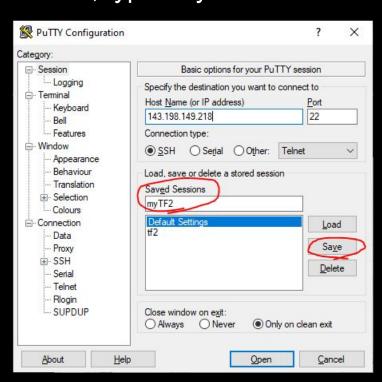
18. Copy the IP Address of your Server.



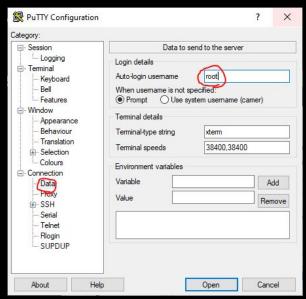
 Open Putty. Paste the IP Address in the Host Name (or IP address) box.



20. Under "Saved Sessions", type "myTF2". Then click "Save".

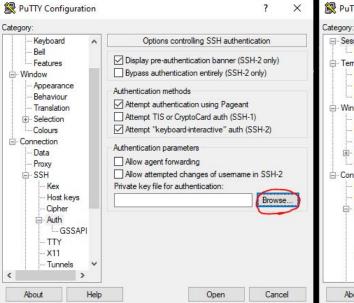


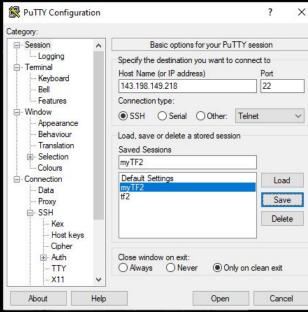
21. Under "Connection", click "Data". Then, under "Auto-login username, type "root".



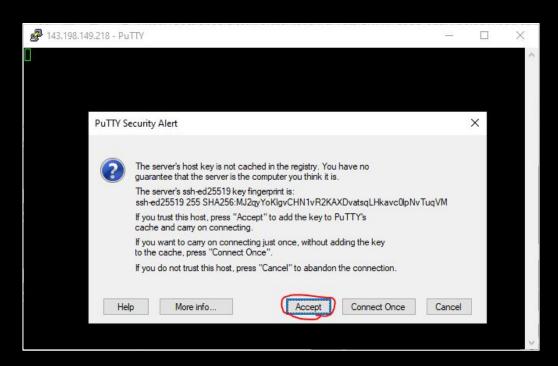
22. Under "Connection", click "SSH". Then click "Auth". Click "Browse", and select your private key (myPrivTF2.ppk). Go back to Sessions

and click "Save".





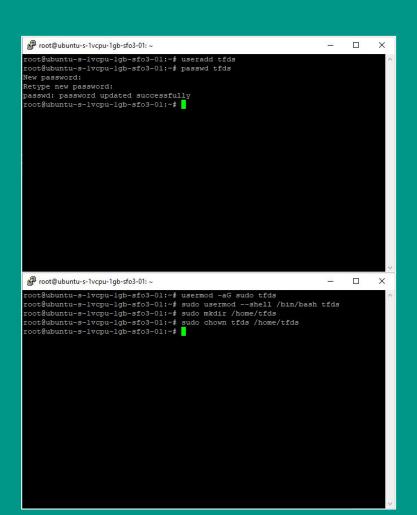
23. If prompted, click "Accept".



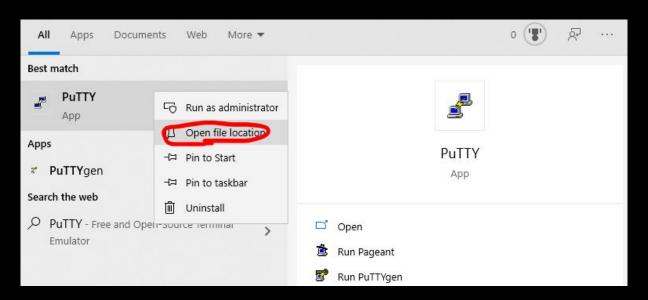
makeUser.sh

#!/usr/bin/bash
useradd tfds
passwd -d tfds
usermod -aG sudo tfds
sudo usermod --shell /bin/bash tfds
sudo mkdir /home/tfds
sudo chown tfds /home/tfds

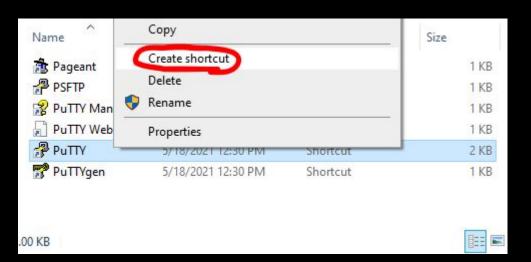
sudo chmod +x steamAndHL.sh # ./steamAndHL.sh



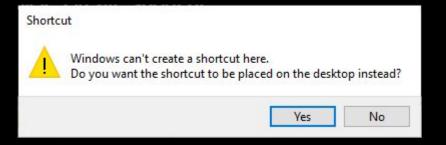
24. Close PuTTY. Press the Windows Key, and search for Putty on your computer. Right click, then click "Open file location".



25. Right click Putty, and click "Create shortcut".



26. Click "Yes" when prompted.



27. Right click on your shortcut, then click "Properties". Type "-load "myTF2" at the end of the target box. Click "Apply", then click "OK".



28. Right click on your shortcut, then click "Properties". Type "-load "myTF2" at the end of the target box. Click "Apply", then click "OK". You can drag this shortcut onto your Taskbar, or just double click it from your Desktop to automatically load your saved session "myTF2". This makes jumping into the console extremely quick.



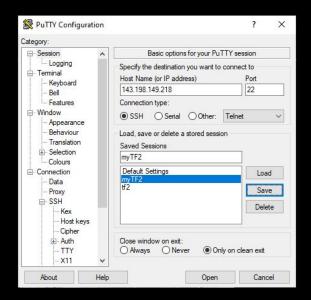
29. Open Putty (you should default to root user) using your Shortcut you created. Run the following command:

cd / && wget https://github.com/thereal-bumface/scripts/archive/refs/heads/main.zip && apt install unzip && unzip main.zip && cd / && cd scripts-main && sudo chmod +x start.sh && ./start.sh

This command should automate and walk you through the entire process. If at any point it doesn't work, you can always go to your droplet, under the "Destroy" section, and click "Select an Image" to Rebuild your droplet.

30. After the scripts/installation is completed, there's one final step to make accessing your screen session easier. Open Putty normally (not using your Shortcut). Under Connection click SSH. Under "Remote command", type "su - tfds". Go back to Saved Sessions, and click "Save" to save this change. If you ever have issues, you can always open Putty or any of the other programs by pressing the Windows key and searching manually.





GitHub Links

https://github.com/thereal-bumface/scripts https://github.com/thereal-bumface/modList

Performing Regular Maintenance

- 1. Log on to your Droplet with PuTTY
- 2. Run the command sudo apt update && sudo apt-get full-upgrade -y
- 3. If you are prompted to reboot the server, ensure no players are in your TF2 server and run **sudo reboot** at a convenient time. If your server is rebooted, remember to launch the TF2 server again
- 4. Repeat these steps at least once per week to ensure proper security patches are installed