

ssh -i ~/.ssh/tumblebuns.pub tumblebuns@84.201.132.210

```
groot@meduza : ~/.ssh
[0] % ssh -i tumblebuns.pub tumblebuns@84.201.132.210
The authenticity of host '84.201.132.210 (84.201.132.210)' can't be established.
ED25519 key fingerprint is SHA256:wWsgM7/yJnOKFrZ5w76b3hTvhzNHc4ulZNgec4Lrw/8.
This key is not known by any other names
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added '84.201.132.210' (ED25519) to the list of known hosts.
Welcome to Ubuntu 22.04.2 LTS (GNU/Linux 5.15.0-75-generic x86_64)

 * Documentation:  https://help.ubuntu.com
 * Management:    https://landscape.canonical.com
 * Support:       https://ubuntu.com/advantage

System information as of Fri Jun 23 04:37:41 AM UTC 2023

System load:  0.5048828125      Processes:            135
Usage of /:   24.2% of 17.63GB   Users logged in:     0
Memory usage: 21%              IPv4 address for eth0: 10.128.0.27
Swap usage:   0%

Expanded Security Maintenance for Applications is not enabled.

0 updates can be applied immediately.

Enable ESM Apps to receive additional future security updates.
See https://ubuntu.com/esm or run: sudo pro status

The programs included with the Ubuntu system are free software;
the exact distribution terms for each program are described in the
individual files in /usr/share/doc/*/copyright.

Ubuntu comes with ABSOLUTELY NO WARRANTY, to the extent permitted by
applicable law.
```

this doesn't work

ssh-copy-id -i ~/.ssh/tumblebuns.pub tumblebuns@84.201.1 2.210

! ddin" lo" in to remote #m

ssh-! dd -\$

ssh-! dd ~/.ssh/tumblebuns

usin" -% &or e' plicit ! " ent &orw! rdin"

ssh -i ~/.ssh/tumblebuns -A tumblebuns@84.201.132.210

then ssh into ! pri#! te #m

ssh 10.128.0.13

#output

tumblebuns@&ortkno' (~) hostn! me

&ortkno'

```
tumblebuns@fortkno' (~) ip ! show eth0
2( eth0( * +, - %. /%01234$15/%012462$- 78, 946: mtu 1; 00 <disc m< st! te 46 "roup de&! ult
<len 1000
link/ether d0(0d(1&= (bb(b0 brd >(>(>(>(>
! ltn! me enp1 8s0
! ltn! me ens8
inet 10.128.0.1 /24 metric 100 brd 10.128.0.2; ; scope "lob! l eth0
#! lid9l&t &ore#er pre&erred9l&t &ore#er
inet= &e80((d20d(1>&(&e= (bbb0/=4 scope link
#! lid9l&t &ore#er pre&erred9l&t &ore#er
```

```
# there should be no keys on bastion host(
tumblebuns@bastion(~) ls -l! ~/.ssh/
tot! l 20
drw' ----- 2 tumblebuns tumblebuns 40?= @un 2 0; (24 .
drw' r-' --- 4 tumblebuns tumblebuns 40?= @un 2 0; (20 ..
-rw----- 1 tumblebuns tumblebuns ; == @un 2 04( ; ! uthoriAed9keys
-rw----- 1 tumblebuns tumblebuns ?B8 @un 2 0; (24 known9hosts
-rw-r--r-- 1 tumblebuns tumblebuns 142 @un 2 0; (18 known9hosts.old
```

sin"le line ssh connection to remote pri#! te #m
This command establishes an SSH connection to fortknex by frst connecting to the bastion host (84.201.1 2.210 /as the t "mbleb "ns "ser# and then \$ "m %ing from the bastion host to fortknex (10.128.0.1 /as the t "mbleb "ns "ser. The &' o %tion enables agent for (arding#allo (ing yo "to "se yo "r local SSH key on the remote machine.

**% ssh -i ~/.ssh/tumblebuns -A -J tumblebuns@84.201.132.210
tumblebuns@10.128.0.13**

```
1he ! uthenticity o& host (10.128.0.1 D* no hostip &or pro' y comm! nd: E c! n't be est! blished.
8. 2; ; 1? key Fn" erprint is OG%2; =(G&"I' /HI kJ +4- e/I #KI Lb8G MdNss?2d/%tALeehl ls.
1his key is not known by ! ny other n! mes
%re you sure you w! nt to continue connectin" Dyes/no/PFn" erprintQER yes
7! rnin"( 6erm! nently ! dded (10.128.0.1 C D8. 2; ; 1?E to the list o& known hosts.
S
```

Oystem in&orm! tion ! s o& lri @un 2 0; (2(; ; %3 41/ 202

```
Oystem lo! d( 0.04=8B; 6rocesses( 1 0
4s! "e o&/( 24.2T o& 1B.= L+ 4sers lo""ed in( 0
3emory us! "e( 22T 56#4 ! ddress &or eth0( 10.128.0.1
Ow! p us! "e( 0T
```

8' pl' nded Oecurity 3! inten! nce &or %pplic! tions is not en! bled.

```
$! st lo" in( lri @un 2 0; (2B( 202 &rom 10.128.0.2B
tumblebuns@fortkno' (~) hostn! me
fortkno'
```

```
# using ! to shorten the command and U to add to ~/.Ashrc(
alias fortknox="ssh -i ~/.ssh/tumblebuns -A -J tumblebuns@84.201.132.210
tumblebuns@10.128.0.13"
```

```
source ~/.Ashrc
```

```
# then use ! to save time without
fortknox
```

```
! fortknox
```

```
Welcome to -b "nt " 22.04.2 .TS ( /O-1 in "x 2.12.0.132 generic x84544!
```

```
...
```

```
System information as of Fri Jul 2 04:28 '9 -T: 202
```

```
System load 0.0 processes 1 0
```

```
-sage of 18 24.2 + of 13.4 /< -sers logged in 0
```

```
Memory usage 22 + =; >4 address for eth0 10.128.0.1
```

```
S(a% "sage 0 +
```

```
...
```

```
Last login Fri Jul 2 04:40:08 202 from 10.128.0.23
```

```
t "mbleb "ns ?fortknox@A hostname
fortknox
```

For (e can use a function to @!\$hrc

```
function fort Knox (/D
ssh $ @!ssh $ "mbleb "ns $' $/t "mbleb "ns 84.201.1 2.210
t "mbleb "ns 10.128.0.1 EA?E
F
```

So rce
so rce @!\$hrc
fort Knox

To make fort Knox alias callable (ith ssh create ne (alias for \$ssh G\$
alias ssh H\$ssh /
so rce @!\$hrc
Then ssh fort Knox command sho 'ld (ork
ssh fort Knox

To set "% J; Oser >er ;rit "nl
htt \$ \$1tech >ie (leo.com \$install \$rit "nl \$> \$n \$n \$"b "nt "\$ser >er /

s "do a \$ "%date KKs "do a \$ "%grade \$y
s "do a \$ install (get >im c "rl gn "%g2 soft (are \$to \$erties \$common a \$trans \$ort \$
htt \$ ca \$certificates lsb \$release

s "do tee \$etc \$a \$ \$so rces.list.d /rit "nl.list L L MN6 deb
htt \$ \$1te \$. \$rit "nl.com \$table \$a \$ \$ammy main MN6

s "do a \$ \$key ad > \$keyser >er hk %\$1keyser >er. 'b "nt ".com \$dec >
3248 OP<<2266PM228 3028 401 3' M44 2: 0: 68M2 P2 '

```
echo /deb http://security.ubuntu.com/ubuntu focal-security main /s "do tee
/etc/apt/sources.list.d/focal-security.list s "do apt-get update s "do apt-get install libssl1.1
```

```
(get RPN http://static.mongodb.org/_static/mongodb-4.0.asc /s "do apt-key add
echo /deb /arch/amd64 /arm64 *http://repo.mongodb.org/apt/ubuntu focal/mongodb-org/4.0 main /s "do tee /etc/apt/sources.list.d/mongodb-org/4.0.list
```

```
s "do apt-get update && s "do apt-get install mongodb-org
```

```
s "do systemctl start mongodb
s "do systemctl enable mongodb
```

```
s "do systemctl status mongodb
```

```
http://127.0.0.1:27017
```

```
s "do mongodb --keyfile /etc/mongodb.keyfile
s "do mongodb --fork --logpath /var/log/mongodb/mongod.log
```

```
set /etc/mongod.conf for default "server
mongodb
mongodb
```

```
STUVWXYZ[\ ^_`aBcD^T ZdUTWdV -servers
e`fT^]gTh]i test
j XUKgXZT_VU[ test
C
;=O 42141232032 3438 44302P1224342
I T ZdUTWdVServer WXYZ[\ cV`ZV`#m`]Z[grZTV\ VFXdX`fT^]gTh]] ]
gTmcdTV\
j XW`XY^VV8https://docs.pritunl.com/v1/docs/connecting
```

```

on a local machine$
s "do a % install o %en>%n
then move config file do (nloaded from the %it "nl dashboard (do (n arro (/to
/etc % %en>%n %ongif.o>%n
tar %f @1% (nloads test.tar
s "do m> test %test5%it "nl.o>%n %etc % %en>%n %config.o>%n
s "do o %en>%n %config %etc % %en>%n %config.o>%n

```

```

"se for a "thentication$
test
42141232032 3438 44302P1224342

```

*B*add certbot and install nip.io as xi.io is no longer in business (for ip address!)

```
s "do systemctl stop %i"it "nl
```

```
s "do a %i install certbot
sudo apt update
sudo apt install -y curl jq
```

```
PUBLIC_IP=$(curl -s https://api.ipify.org)
echo $PUBLIC_IP
```

```
sudo curl -LO https://github.com/exentrique/nip.io/raw/master/bin/nip.io
chmod +x nip.io
sudo mv nip.io /usr/local/bin/
```

```
sudo nano /etc/systemd/system/nip.io.service
```

```
# paste this into the file
[Unit]
Description=Update Nip.io DNS record
After=network-online.target
```

```
[Service]
Type=oneshot
ExecStart=/bin/bash -c "curl -sSL https://api.ipify.org | xargs -I {}
nip.io update {}"
```

```
[Install]
WantedBy=multi-user.target
```

```
# enable nip.io service
sudo systemctl enable nip.io
sudo systemctl start nip.io

# run certbot on <madeupdomain>.<youripaddress>.nip.io

sudo certbot certonly --standalone --preferred-challenges http -d
tumblebuns.84.201.132.210.nip.io
```

```
No VM guests are running outdated hypervisor (qemu) binaries on this host.
tumblebuns@bastion:~$ PUBLIC_IP=$(curl -s https://api.ipify.org)
echo $PUBLIC_IP
84.201.132.210
tumblebuns@bastion:~$ curl -sSL https://raw.githubusercontent.com/dprandzioch/nip.io/master/nip.io -o nip
chmod +x nip.io
sudo mv nip.io /usr/local/bin/
tumblebuns@bastion:~$ sudo nano /etc/systemd/system/nip.io.service
tumblebuns@bastion:~$ sudo systemctl enable nip.io
tumblebuns@bastion:~$ sudo systemctl start nip.io
Created symlink /etc/systemd/system/multi-user.target.wants/nip.io.service → /etc/systemd/system/nip.io.s
ce.
Job for nip.io.service failed because the control process exited with error code.
See "systemctl status nip.io.service" and "journalctl -xeu nip.io.service" for details.
tumblebuns@bastion:~$ sudo certbot certonly --standalone --preferred-challenges http -d tumblebuns.84.201
.210.nip.io
Saving debug log to /var/log/letsencrypt/letsencrypt.log
Requesting a certificate for tumblebuns.84.201.132.210.nip.io

Successfully received certificate.
Certificate is saved at: /etc/letsencrypt/live/tumblebuns.84.201.132.210.nip.io/fullchain.pem
Key is saved at: /etc/letsencrypt/live/tumblebuns.84.201.132.210.nip.io/privkey.pem
This certificate expires on 2023-09-21.
These files will be updated when the certificate renews.
Certbot has set up a scheduled task to automatically renew this certificate in the background.

-----
If you like Certbot, please consider supporting our work by:
* Donating to ISRG / Let's Encrypt: https://letsencrypt.org/donate
* Donating to EFF: https://eff.org/donate-le
-----
```

```
sudo find / -name "pritunl.conf" -type f 2>/dev/null
>> /etc/pritunl.conf
sudo n! no /etc/pritunl.conf
```

```
# ! dd these lines
/etc/letsencrypt/live/tumblebuns.84.201.132.210.nip.io/fullchain.pem
/etc/letsencrypt/live/tumblebuns.84.201.132.210.nip.io/privkey.pem
```

```
! s &ollows(
V
Wst! tic9c! cheW( true2
WportW( 44 2
Wtemp9p! thW( W/tmp/pritunl9?d; 1B8c???ee4; e?! BBBB; 8b01ed & OW2
Wlo" 9p! thW( W/#! r/lo"/pritunl.io" W2
Wwww9p! thW( W/usr/sh! re/pritunl/wwwW2
Wbind9! ddrW( W0.0.0.0W2
Wmon" odb9uriW( Wmon" odb(//loc! lhost(2B01B/pritunlW2
Wloc! l9! ddress9inter&! ceW( W! utoW2
```



```
Wser#er9ssl9certW( W/etc/letsencrypt/li#e/tumblebuns.84.201.1 2.210.nip.io/&ullch! in.pemW2
Wser#er9ssl9keyW( W/etc/letsencrypt/li#e/tumblebuns.84.201.1 2.210.nip.io/pri#key.pemW
X
```

```
# then
sudo systemctl restart pritunl
```

```
# pritunl is workin"2 but not nip.io(
sudo systemctl start tus nip.io Y nip.io.ser#ice - 4pd! te Nip.io . NO record $o! ded(
lo! ded D/etc/systemd/system/nip.io.ser#iceZ en! bledZ #endor preset( en! bledE
%cti#e( &! iled D, esult( e' it-codeE since I ri 202 -0=-2 1=(2?( B 41/Z ?h ! " o
6rocess( =; 14 8' ecOt! rt[ /bin/b! sh -c curl -sO$ https(//! pi.ipi&y.or" \ ' ! r" s -5 VX
nip.io upd! te VX Dcode[ e' ited2 st! tus: 3! in 65. ( =; 14 Dcode[ e' ited2
st! tus[ 12 E /64( ? ms
```

```
# don't know where to find ! workin" nip.io file
```