

SSH Port Forwarding

Server Machine:

```
[root@server ~]# vim /etc/ssh/sshd_config
```

Aug 3 18:58

root@server:~ — vim /etc/ssh/sshd_config

```
# $OpenBSD: sshd_config,v 1.104 2021/07/02 05:11:21 dtucker Exp $

# This is the sshd server system-wide configuration file.  See
# sshd_config(5) for more information.

# This sshd was compiled with PATH=/usr/local/bin:/usr/bin:/usr/local/sbin:/usr/sbin

# The strategy used for options in the default sshd_config shipped with
# OpenSSH is to specify options with their default value where
# possible, but leave them commented.  Uncommented options override the
# default value.

# To modify the system-wide sshd configuration, create a *.conf file under
# /etc/ssh/sshd_config.d/ which will be automatically included below
Include /etc/ssh/sshd_config.d/*.conf

# If you want to change the port on a SELinux system, you have to tell
# SELinux about this change.
# semanage port -a -t ssh_port_t -p tcp #PORTNUMBER
#
#Port 2021
AddressFamily any
ListenAddress 0.0.0.0
ListenAddress ::

HostKey /etc/ssh/ssh_host_rsa_key
HostKey /etc/ssh/ssh_host_ecdsa_key
HostKey /etc/ssh/ssh_host_ed25519_key

# Ciphers and keying
#ReKeyLimit default none

# Logging
#SyslogFacility AUTH
#LogLevel INFO

# Authentication:

#LoginGraceTime 2m
#PermitRootLogin prohibit-password
#StrictModes yes
-- INSERT --
```

21,11Top

```
root@server:~# vim /var/www/html/index.html
<h1> Hello, Testing for SSH port forwarding
</h1>

-- INSERT --
```

Add Service:

```
failed to start sshd.service: unit sshd.service not found.
[root@server ~]# yum list installed | grep sshd
[root@server ~]# systemctl start sshd
[root@server ~]# firewall-cmd --add-service=ssh --permanent
usage: 'firewall-cmd --help' for usage information or see firewall-cmd(1) man page
firewall-cmd: error: unrecognized arguments: --add-service=ssh
[root@server ~]# firewall-cmd --add-service=ssh --permanent
Warning: ALREADY_ENABLED: ssh
success
[root@server ~]# firewall-cmd --reload
success
[root@server ~]# firewall-cmd --list-all
public (active)
  target: default
  icmp-block-inversion: no
  interfaces: enp0s3
  sources:
  services: cockpit dhcpv6-client http ssh
  ports:
  protocols:
  forward: yes
  masquerade: yes
  forward-ports:
    port=80:proto=tcp:toport=:toaddr=192.168.0.4
  source-ports:
  icmp-blocks:
  rich rules:
[root@server ~]#
```

Add Port:

```
rich rules.
[root@server ~]# firewall-cmd --add-port=2021/tcp --permanent
success
[root@server ~]# firewall-cmd --reload
success
[root@server ~]# firewall-cmd --list-all
public (active)
  target: default
  icmp-block-inversion: no
  interfaces: enp0s3
  sources:
  services: cockpit dhcpv6-client http ssh
  ports: 2021/tcp
  protocols:
  forward: yes
  masquerade: yes
  forward-ports:
    port=80:proto=tcp:toport=:toaddr=192.168.0.4
  source-ports:
  icmp-blocks:
  rich rules:
[root@server ~]#
```

Forward port:

```
[root@server ~]# firewall-cmd --add-forward-port=port=22:proto=tcp:toport=2021 --permanent
success
[root@server ~]# firewall-cmd --reload
success
[root@server ~]# firewall-cmd --list-all
public (active)
  target: default
  icmp-block-inversion: no
  interfaces: enp0s3 enp0s8
  sources:
  services: cockpit dhcpv6-client http ssh
  ports: 2021/tcp
  protocols:
  forward: yes
  masquerade: yes
  forward-ports:
    port=22:proto=tcp:toport=2021:toaddr=
  source-ports:
  icmp-blocks:
  rich rules:
[root@server ~]# S
```

Client Machine:

```
[root@client2 ~]# curl 192.168.0.3
<h1> Hello, Testing for SSH port forwarding
</h1>
```