

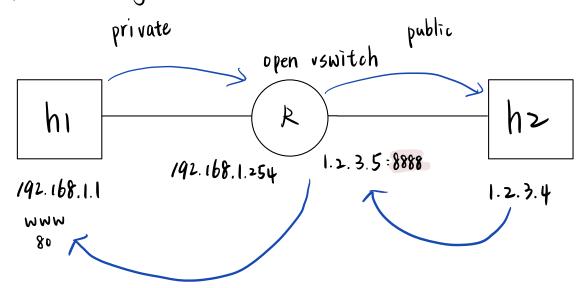
/mininet-wifi/example # python3 miniedit.py

就是 CO Type: Remote Controller

> sh ovs-ofcel dump-flows 31
> hi ping hz

test.py
Talle-timeout = 10
10 sec 7 表 規則就会不見

## DNAT = port forwarding



# python 2.py

- > sh ovs-ofctl dump-flows 31
- > sh ovs-ofctl add-flow 31 tcp, nw\_src = 192.168.1.1, nw\_dst = 1.2.3.4, tp\_src = 80, actions=mod\_nw\_src=1.2.3.5, mod\_dl\_dst = 00:00:00:00:00:00, mod\_tp\_src=8888, output:>
- > sh ovs-ofctl add-flow 31 tcp, nw\_src = 1.2.3.4, nw\_dst = 1.2.3.5, tp\_dst = 8888 actions = mod\_nw\_dst = 192.168, mod\_dl\_dst = 00:00:00:00:00:00:0], mod\_tp\_dst = 80, output:
- > sh ovs-ofctl dump-flows 31
- > xterm hi hz

```
hi # python -m SimpleHTTPServer 80
hz # arp -n # curl 1.2.3.5:8888
```

Fivewall

1. h 1 ping h 2

2. h 1 可以連 h 2: 80 80

3. h 1 不可以連 h 2: 80 80

private

public

NAT

192.168.1.1

192.168.1.254

# python = py

80、80 80

满足 hi ping hz

- > sh ovs-ofctl dump-flows 31
- > sh ovs-ofctl add-flows 31 priority=10, ip, nw\_src=192.168.1.1, nw\_dst=1.2.3.4

  actions=mod\_nw\_src=1.2.3.5, mod\_dl\_dst=00:00:00:00:00:00:00.00:00:00
- > sh ovs-ofctl add-flows 31 priority =10, ip, nw\_src = 1.2.3.4, nw\_dst = 1.2.3.5

  actions = mod\_nw\_dst = 192.168, mod\_dl\_dst = 00:00:00:00:00:00:01, output: 1
- > sh ovs-ofctl dump-flows 51
- > xterm hi hz hz

```
# python -m SimpleHTTPServer 80
# python -m SimpleHTTPServer 8080
h1
# ping 1.2.3.4
```

> sh ovs-ofctl dump-flows 31

hi # carl http://1.2.3.4

h2:8080

> sh ovs-ofctl dump-flows 51

hi # carl http://1.2.3.4:8080