

POX:

```
root@ubuntu:/home/ubuntu/pox# ./pox.py forwarding.final_redirection
```

```
POX 0.2.0 (carp) / Copyright 2011-2013 James McCauley, et al.
```

```
INFO:core:POX 0.2.0 (carp) is up.
```

```
INFO:openflow.of_01:[00-1b-21-83-a2-8c 1] connected
```

```
INFO:openflow.of_01:[00-1b-21-76-34-a0 2] connected
```

```
^CINFO:core:Going down...
```

```
INFO:openflow.of_01:[00-1b-21-76-34-a0 2] disconnected
```

```
INFO:openflow.of_01:[00-1b-21-83-a2-8c 1] disconnected
```

```
defaultdict(<type 'dict'>, { 116525511840: {EthAddr('00:1b:21:23:35:28'): 1,  
EthAddr('00:21:9b:da:76:b3'): 3}, 116526391948: {EthAddr('00:1b:21:23:35:28'): 4,  
EthAddr('00:21:9b:da:76:b3'): 2}}}  
defaultdict(<type 'dict'>, { 116525511840: {EthAddr('00:1b:21:23:35:28'): 1,  
EthAddr('00:21:9b:da:76:b3'): 3}, 116526391948: {EthAddr('00:1b:21:23:35:28'): 4,  
EthAddr('00:21:9b:da:76:b3'): 2}}})
```

```
Request reached controller with destination mac as web-server and redirected to authenticator  
(dpid of the ovs:', 116525511840)
```

```
('source IP & Destination IP', IPAddr('192.168.2.4'), IPAddr('192.168.2.1'))
```

```
Request reached controller with destination mac as web-server and redirected to authenticator  
(dpid of the ovs:', 116526391948)
```

```
('source IP & Destination IP', IPAddr('192.168.2.3'), IPAddr('192.168.2.1'))
```

```
Request reached controller with destination mac as authenticator and send to authenticator  
(dpid of the ovs:', 116525511840)
```

```
('source IP & Destination IP', IPAddr('192.168.2.3'), IPAddr('192.168.2.2'))
```

```
Reply from authenticator
```

```
(dpid of the ovs:', 116525511840)
```

```
('source IP & Destination IP', IPAddr('192.168.2.2'), IPAddr('192.168.2.4'))
```

```
('source MAC & Destination MAC', EthAddr('00:1b:21:23:35:28'), EthAddr('ec:f4:bb:a0:28:d1'))
```

```
authenticated packet Broadcasting
```

```
Reply from authenticator
```

```
(dpid of the ovs:', 116526391948)
```

```
('source IP & Destination IP', IPAddr('192.168.2.2'), IPAddr('192.168.2.255'))
```

```
('source MAC & Destination MAC', EthAddr('ec:f4:bb:a0:28:d1'), EthAddr('ff:ff:ff:ff:ff:ff'))
```

```
authenticated packet Broadcasting
```

```
Modifying flow-table
```

```
(dpid of the ovs:', 116525511840)
```

```
('source IP & Destination IP', IPAddr('192.168.2.2'), IPAddr('192.168.2.4'))
```

```
('source MAC & Destination MAC', EthAddr('00:1b:21:23:35:28'), EthAddr('ec:f4:bb:a0:28:d1'))
```

```
Modifying flow-table
```

```
(dpid of the ovs:', 116526391948)
```

```
('source IP & Destination IP', IPAddr('192.168.2.2'), IPAddr('192.168.2.255'))
```

```
('source MAC & Destination MAC', EthAddr('ec:f4:bb:a0:28:d1'), EthAddr('ff:ff:ff:ff:ff:ff'))
```