```
pinyu@sdnlab:~$ sudo ovs-vsctl add-br br0 -- set Bridge br0 fail-mode=secure
[sudo] password for pinyu:
ovs-vsctl: cannot create a bridge named br0 because a bridge named br0 already exists
pinyu@sdnlab:~$ ovs-vsctl del-br br0
ovs-vsctl: unix:/usr/local/var/run/openvswitch/db.sock: database connection failed (Permission denied)
pinyu@sdnlab:~$ sudo ovs-vsctl del-br br0
[sudo] password for pinyu:
pinyu@sdnlab:~$ sudo ovs-vsctl add-br br0 -- set Bridge br0 fail-mode=secure
```

```
pinyu@sdnlab:-/ovs$ ls
acinclude.m4 autom4te.cache configure distfles
bulld-aux configure.ac local.m4
all-gitfles config.h config.status pinyu@sdnlab:-/ovs$
bulld-aux config.status debian LICENSE manaages.mk

all-gitfles config.h config.status debian LICENSE manaages.mk

pinyu@sdnlab:-/ovs$
pinyu@sdnlab:-
```

```
pinyu@sdnlab:~/ovs$ sudo ./add4port.sh
ovs-vsctl: Port does not contain a column whose name matches "--set"
ovs-ofctl: br0: couldn't find port `p1'
ovs-vsctl: Port does not contain a column whose name matches "--set"
ovs-ofctl: br0: couldn't find port `p2'
ovs-vsctl: Port does not contain a column whose name matches "--set"
ovs-ofctl: br0: couldn't find port `p3'
ovs-vsctl: Port does not contain a column whose name matches "--set"
ovs-ofctl: br0: couldn't find port `p4'
pinyu@sdnlab:~/ovs$
pinyu@sdnlab:~/ovs$ vi add4port.sh
pinyu@sdnlab:~/ovs$ sudo ./add4port.sh
pinyu@sdnlab:~/ovs$
```

```
pinyu@sdnlab:~/ovs$ sudo ovs-vsctl show
 6abe975b-72dd-4c11-bae7-d155570bf010
       Bridge br0
              fail mode: secure
              Port p2
                     Interface p2
                            type: internal
              Port br0
                     Interface br0
                            type: internal
              Port p3
                     Interface p3
                            type: internal
              Port p1
                     Interface p1
                            type: internal
              Port p4
                     Interface p4
                            type: internal
       ovs_version: "2.12.90"
config: PORT_DOWN state: LINK DOWN
    speed: 0 Mbps now, 0 Mbps max
GFT CONFIG REPLY (xid=0x4): frags=normal miss send len=0
pinyu@sdnlab:~/ovs$ sudo ovs-ofctl add-flow br0 \
> "table=0,dl_src=01:00:00:00:00:00:00/01:00:00:00:00,actions=drop"
pinyu@sdnlab:~/ovs$ sudo ovs-ofctl add-flow br0 "table=0,dl_dst=01:80:c2:00:00:00/ff:ff:ff:ff:ff:ff:f0,actions=drop"
bridge("br0")
 Final flow: unchanged
Megaflow: recirc_id=0,eth,in_port=1,dl_src=00:00:00:00:00:00:00:00:00:00:00;dl_dst=01:80:c2:00:00:00/ff:ff:ff:ff:ff:ff:dd_type=0x000
Datapath actions: drop
pinyu@sdnlab:~/ovs$ sudo ovs-appctl ofproto/trace br0 in_port=1,dl_dst=01:80:c2:00:00:10
Flow: in_port=1,vlan_tci=0x0000,dl_src=00:00:00:00:00:d0,dl_dst=01:80:c2:00:00:10,dl_type=0x0000
bridge("br0")

    priority 0
        resubmit(,1)
    No match.
        drop
```

Final flow: unchanged Megaflow: recirc_id=0,eth,in_port=1,dl_src=00:00:00:00:00:00:00:00:00:00:00,dl_dst=01:80:c2:00:00:10/ff:ff:ff:ff:ff:ff;fd,dl_type=0x0000 Datapath actions: dr<u>o</u>p

```
pinyu@sdnlab:~/ovs$ ovs-ofctl add-flow br0 "table=1,priority=0,actions=drop
ovs-ofctl: /usr/local/var/run/openvswitch/br0.mgmt: failed to open socket (Permission denied)
pinyu@sdnlab:~/ovs$ sudo ovs-ofctl add-flow br0 "table=1,priority=0,actions=drop"
[sudo] password for pinyu:
pinyu@sdnlab:~/ovs$ sudo ovs-ofctl add-flows br0 - << 'EOF
> table = 1 ,priority=99,in_port = 2,vlan_tci=0,actions=mod_vlan_vid:20,resubmit(,2)
  table = 1, priority=99,in_port = 3,vlan_tci=0,actions=mod_vlan_vid:30,resubmit(,2) table = 1, priority=99,in_port = 4,vlan_tci=0,actions=mod_vlan_vid:30,resubmit(,2)
ovs-ofctl: -:1: field table missing value
pinyu@sdnlab:~/ovs$ sudo ovs-ofctl add-flows br0 << 'EOF'
table = 1 ,priority=99,in_port = 2,vlan_tci=0,actions=mod_vlan_vid:20,resubmit(,2)
table = 1, priority=99,in_port = 3,vlan_tci=0,actions=mod_vlan_vid:30,resubmit(,2)
table = 1, priority=99,in port = 4,vlan tci=0,actions=mod vlan vid:30,resubmit(,2)
FOF
ovs-ofctl: 'add-flows' command requires at least 2 arguments
pinyu@sdnlab:~/ovs$ sudo ovs-ofctl add-flows br0 - << 'EOF
table = 1 ,priority=99,in_port = 2,vlan_tci=0,actions=mod_vlan_vid:20,resubmit(,2)
table = 1, priority=99,in_port = 3,vlan_tci=0,actions=mod_vlan_vid:30,resubmit(,2)
table = 1, priority=99,in_port = 4,vlan_tci=0,actions=mod_vlan_vid:30,resubmit(,2)
ovs-ofctl: -:1: field table missing value
pinyu@sdnlab:~/ovs$ sudo ovs-appctl ofproto/trace br0 in_port=1,vlan_tci=5
Flow: in port=1,vlan tci=0x0005,vlan tci1=0x0000,dl src=00:00:00:00:00.00:00,dl dst=00:00:00:00:00:00,dl type=0x0000
bridge("br0")
O. priority 0
resubmit(,1)
1. in_port=1, priority 99
resubmit(,2)
2. No match.
drop
Final flow: unchanged
Megaflow: rectrc_id=0,eth,in_port=1,dl_src=00:00:00:00:00:00:00:00:00:00:00,dl_dst=00:00:00:00:00:00:00/ff:ff:ff:ff:ff:ff:dd_type=0x0000
Datapath actions: drop
 i<mark>nyu@sdnlab:~/ovs</mark>$ sudo ovs-appctl ofproto/trace br0 in_port=2
`low: in_port=2,vlan_tci=0x0000,dl_src=00:00:00:00:00:00;dl_dst=00:00:00:00:00:00;dl_type=0x0000
bridge("br0")
0. priority 0
resubmit(,1)
1. priority 0
drop
pinyu@sdnlab:~/ovs$ ovs-ofctl add-flows br0 - <<'EOF'
    table=1, priority=99, in_port=2, vlan_tci=0, actions=mod_vlan_vid:20, resubmit(,2)
table=1, priority=99, in_port=3, vlan_tci=0, actions=mod_vlan_vid:30, resubmit(,2)
table=1, priority=99, in_port=4, vlan_tci=0, actions=mod_vlan_vid:30, resubmit(,2)
> E0F
ovs-ofctl: /usr/local/var/run/openvswitch/br0.mgmt: failed to open socket (Permission denied)
pinyu@sdnlab:~/ovs$ sudo ovs-ofctl add-flows br0 - <<'EOF'
  table=1, priority=99, in_port=2, vlan_tci=0, actions=mod_vlan_vid:20, resubmit(,2) table=1, priority=99, in_port=3, vlan_tci=0, actions=mod_vlan_vid:30, resubmit(,2) table=1, priority=99, in_port=4, vlan_tci=0, actions=mod_vlan_vid:30, resubmit(,2)
FOF
 pinyu@sdnlab:~/ovs$ sudo ovs-appctl ofproto/trace br0 in_port=2,vlan_tci=5
Flow: in_port=2,vlan_tci=0x0005,vlan_tci1=0x0000,dl_src=00:00:00:00:00:00:00,dl_dst=00:00:00:00:00:00.dl_type=0x0000
bridge("br0")
0. priority 0
resubmit(,1)
1. priority 0
drop
```

```
pinyu@sdnlab:~$ sudo ovs-ofctl add-flow br0 \
[sudo] password for pinyu:
Sorry, try again.
[sudo] password for pinyu:
sudo: 1 incorrect password attempt
```

Detapath detenns. Grop prinv@sdnlab:-/ovs\$ sudo ovs-ofctl dump-flows br0 table=10 cookle=0x0, duration=300.132s, table=10, n_packets=0, n_bytes=0, vlan_tci=0x0014/0x0fff,dl_dst=50:00:00:00:00:00:01 actions=load:0x1->NXM_NX_REG0[0..15] cookle=0x0, duration=54.692s, table=10, n_packets=0, n_bytes=0, vlan_tci=0x001e/0x0fff,dl_dst=32:bc:97:1f:bc:70 actions=load:0x3->NXM_NX_REG0[0..15]