```
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$ vi add4port.sh
pinyu@sdnlab:-/ovs$ vi add4port.sh
pinyu@sdnlab:-/ovs$ vi add4port.sh
acinclude.m4 automate.cache configure acid4port.sh
all-distfiles config.h in datapath lib Makefile.an
appveyor.yml config.log datapath-windows pinyu@sdnlab:-/ovs$ viadd4port.sh
all-distfiles config.status
acinclude.m4 automate.cache configure.ac
add4port.sh build-aux config.hin datapath lib Makefile.an orproto selinux Vagrantfile.FreeBSD viadefile.an ovsdb stamp-hi vswitchd
appveyor.yml config.status
acinclude.m4 automate.cache configure aciocal.m4 bots.sh configure.ac Documentation Maintiles.FreeBSD viadefile.an orproto selinux Vagrantfile.FreeBSD viadefile.an ovsdb stamp-hi vswitchd poc third-party windows

### Maintiles.FreeBSD viadefile.an orproto selinux Vagrantfile.FreeBSD vagrantfile.FreeBSD
```

```
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$ 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"
pinyu@sdnlab:~/ovs$ sudo ovs-appetl ofproto/trace br0 in_port=1,dl_dst=01:80:c2:00:00:05
Flow: in_port=1,vlan_tci=0x0000,dl_src=00:00:00:00:00:00,dl_dst=01:80:c2:00:00:05,dl_type=0x0000
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=00:00:00:00:00:00,dl_dst=01:80:c2:00:00:10,dl_type=0x0000
bridge("br0")
0. priority 0 resubmit(,1)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,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
```