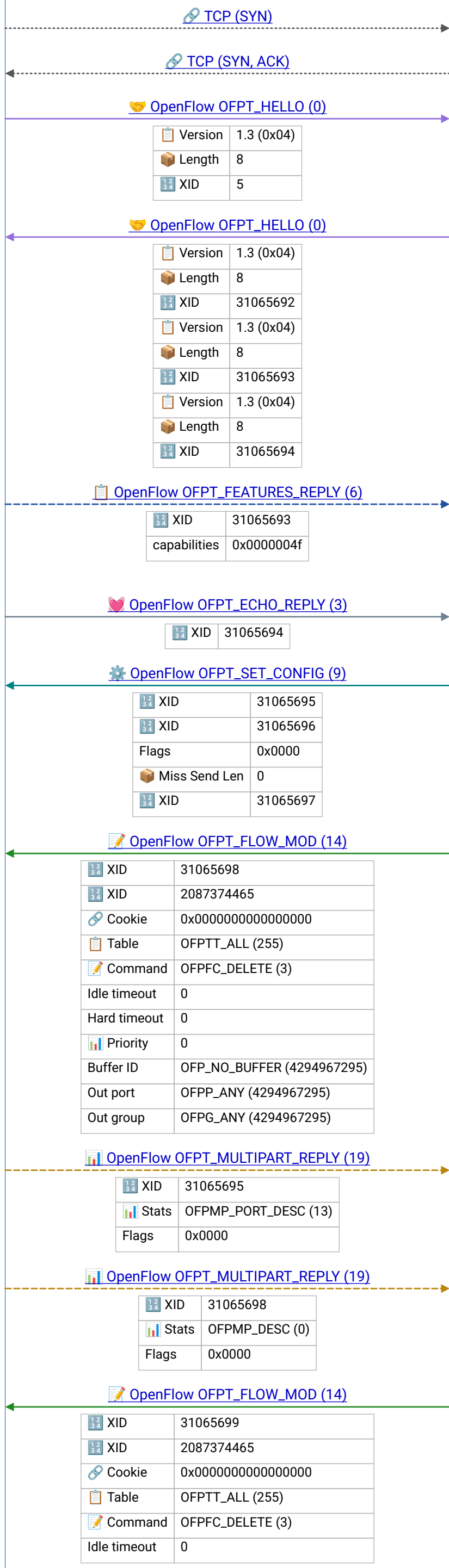


openflow_ovs_init_simple.pcapng



Frame 1 | 2021-01-02T20:36:22.356537Z

Frame 2 | 2021-01-02T20:36:22.385362Z

OpenFlow HELLO – controller and switch exchange version negotiation; both sides advertise supported OpenFlow versions; highest common version is selected

OpenFlow HELLO – controller and switch exchange version negotiation; both sides advertise supported OpenFlow versions; highest common version is selected

FEATURES_REPLY – switch reports its datapath ID (unique identifier), number of flow tables, buffer capacity, and capabilities (flow stats, table stats, port stats, group stats)

Frame 9 | 2021-01-02T20:36:22.407506Z

Frame 12 | 2021-01-02T20:36:22.425345Z

FLOW_MOD – controller installs/modifies/deletes flow entries in switch tables; match fields define which packets to match, actions define what to do (forward, drop, modify headers)

Frame 14 | 2021-01-02T20:36:22.426237Z

Frame 15 | 2021-01-02T20:36:22.426263Z

FLOW_MOD – controller installs/modifies/deletes flow entries in switch tables; match fields define which packets to match, actions define what to do (forward, drop, modify headers)

OVS Switch B

SDN Controller

Hard timeout	0
Priority	0
Buffer ID	OFF_NO_BUFFER (4294967295)
Out port	OFFPP_ANY (4294967295)
Out group	OFFPG_ANY (4294967295)

OpenFlow OFPT_FLOW_MOD (14)

XID	2087374467
Cookie	0x000000005adc15c0
Table	3
Command	OFFPFC_ADD (0)
Idle timeout	0
Hard timeout	0
Priority	8240
Buffer ID	OFF_NO_BUFFER (4294967295)
Out port	0
Out group	0

OpenFlow OFPT_FLOW_MOD (14)

XID	2087374468
Cookie	0x000000005adc15c0
Table	3
Command	OFFPFC_ADD (0)
Idle timeout	0
Hard timeout	0
Priority	8240
Buffer ID	OFF_NO_BUFFER (4294967295)
Out port	0
Out group	0

OpenFlow OFPT_FLOW_MOD (14)

XID	2087374469
Cookie	0x000000005adc15c0
Table	3
Command	OFFPFC_ADD (0)
Idle timeout	0
Hard timeout	0
Priority	8240
Buffer ID	OFF_NO_BUFFER (4294967295)
Out port	0
Out group	0

OpenFlow OFPT_FLOW_MOD (14)

XID	2087374470
Cookie	0x000000005adc15c0
Table	3
Command	OFFPFC_ADD (0)
Idle timeout	0
Hard timeout	0
Priority	8236
Buffer ID	OFF_NO_BUFFER (4294967295)
Out port	0
Out group	0

OpenFlow OFPT_FLOW_MOD (14)

XID	2087374471
Cookie	0x000000005adc15c0
Table	3
Command	OFFPFC_ADD (0)
Idle timeout	0
Hard timeout	0
Priority	8216
Buffer ID	OFF_NO_BUFFER (4294967295)
Out port	0
Out group	0

OpenFlow OFPT_FLOW_MOD (14)

XID	2087374472
Cookie	0x000000005adc15c0
Table	3
Command	OFFFC_ADD (0)
Idle timeout	0
Hard timeout	0
Priority	8216
Buffer ID	OFF_NO_BUFFER (4294967295)
Out port	0
Out group	0

[OpenFlow OFPT_FLOW_MOD \(14\)](#)

XID	2087374473
Cookie	0x000000005adc15c0
Table	3
Command	OFFFC_ADD (0)
Idle timeout	0
Hard timeout	0
Priority	8208
Buffer ID	OFF_NO_BUFFER (4294967295)
Out port	0
Out group	0

[OpenFlow OFPT_FLOW_MOD \(14\)](#)

XID	2087374474
Cookie	0x000000005adc15c0
Table	3
Command	OFFFC_ADD (0)
Idle timeout	0
Hard timeout	0
Priority	8192
Buffer ID	OFF_NO_BUFFER (4294967295)
Out port	0
Out group	0

[OpenFlow OFPT_FLOW_MOD \(14\)](#)

XID	2087374475
Cookie	0x000000005adc15c0
Table	3
Command	OFFFC_ADD (0)
Idle timeout	0
Hard timeout	0
Priority	0
Buffer ID	OFF_NO_BUFFER (4294967295)
Out port	0
Out group	0

[OpenFlow OFPT_FLOW_MOD \(14\)](#)

XID	2087374476
Cookie	0x000000005adc15c0
Table	2
Command	OFFFC_ADD (0)
Idle timeout	0
Hard timeout	0
Priority	0
Buffer ID	OFF_NO_BUFFER (4294967295)
Out port	0
Out group	0

[OpenFlow OFPT_FLOW_MOD \(14\)](#)

XID	2087374477
Cookie	0x000000005adc15c0
Table	1
Command	OFFFC_ADD (0)
Idle timeout	0
Hard timeout	0

Priority	20490
Buffer ID	OFF_NO_BUFFER (4294967295)
Out port	0
Out group	0

OpenFlow OFPT_FLOW_MOD (14)

XID	2087374478
Cookie	0x000000005adc15c0
Table	1
Command	OFFPFC_ADD (0)
Idle timeout	0
Hard timeout	0
Priority	20480
Buffer ID	OFF_NO_BUFFER (4294967295)
Out port	0
Out group	0

OpenFlow OFPT_FLOW_MOD (14)

XID	2087374479
Cookie	0x000000005adc15c0
Table	1
Command	OFFPFC_ADD (0)
Idle timeout	0
Hard timeout	0
Priority	20480
Buffer ID	OFF_NO_BUFFER (4294967295)
Out port	0
Out group	0

OpenFlow OFPT_FLOW_MOD (14)

XID	2087374480
Cookie	0x000000005adc15c0
Table	1
Command	OFFPFC_ADD (0)
Idle timeout	0
Hard timeout	0
Priority	4096
Buffer ID	OFF_NO_BUFFER (4294967295)
Out port	0
Out group	0

OpenFlow OFPT_FLOW_MOD (14)

XID	2087374481
Cookie	0x000000005adc15c0
Table	1
Command	OFFPFC_ADD (0)
Idle timeout	0
Hard timeout	0
Priority	0
Buffer ID	OFF_NO_BUFFER (4294967295)
Out port	0
Out group	0

OpenFlow OFPT_FLOW_MOD (14)

XID	31065700
Cookie	0x000000005adc15c0
Table	0
Command	OFFPFC_ADD (0)
Idle timeout	0
Hard timeout	0
Priority	4096
Buffer ID	OFF_NO_BUFFER (4294967295)
Out port	0
Out group	0

OpenFlow OFPT_FLOW_MOD (14)

XID	31065701
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💡 FLOW_MOD – controller installs/modifies/deletes flow entries in switch tables; match fields define which packets to match, actions define what to do (forward, drop, modify headers)

Cookie	0x000000005adc15c0
Table	0
Command	OFFFC_ADD (0)
Idle timeout	0
Hard timeout	0
Priority	4096
Buffer ID	OFF_NO_BUFFER (4294967295)
Out port	0
Out group	0

OpenFlow OFPT_FLOW_MOD (14)

XID	2087374484
Cookie	0x000000005adc15c0
Table	0
Command	OFFFC_ADD (0)
Idle timeout	0
Hard timeout	0
Priority	0
Buffer ID	OFF_NO_BUFFER (4294967295)
Out port	0
Out group	0

OpenFlow OFPT_ECHO_REQUEST (2)

XID	31065702
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Frame 21 |
2021-01-02T20:36:25.407238Z

OpenFlow OFPT_ECHO_REPLY (3)

XID	31065702
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Frame 22 |
2021-01-02T20:36:25.409238Z

OpenFlow OFPT_ECHO_REQUEST (2)

XID	31065703
-----	----------

Frame 24 |
2021-01-02T20:36:28.405477Z

OpenFlow OFPT_ECHO_REPLY (3)

XID	31065703
-----	----------

Frame 25 |
2021-01-02T20:36:28.407515Z

OpenFlow OFPT_ECHO_REQUEST (2)

XID	31065704
-----	----------

Frame 27 |
2021-01-02T20:36:31.407373Z

OpenFlow OFPT_ECHO_REPLY (3)

XID	31065704
-----	----------

Frame 28 |
2021-01-02T20:36:31.408636Z

OpenFlow OFPT_ECHO_REQUEST (2)

XID	31065705
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Frame 30 |
2021-01-02T20:36:34.42328Z

OpenFlow OFPT_ECHO_REPLY (3)

XID	31065705
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Frame 31 |
2021-01-02T20:36:34.423917Z

TCP (FIN, ACK)

Frame 33 |
2021-01-02T20:36:35.819667Z

TCP (FIN, PSH, ACK)

Frame 35 |
2021-01-02T20:36:35.870613Z