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Multicast Test

iperf

iperf . iperf3 . iperf 가 RHEL 8
 omping

- Server side
- iperf -B <multicast address> -su -i 1 -p <multicast port>

```
iperf -B 228.0.0.4 -su -i 1 -p 45564
```

```
[root@host ~]# iperf -s -u -B 228.0.0.4 -i 1 -p 45564
```

```
-----  
Server listening on UDP port 45564  
Binding to local address 228.0.0.4  
Joining multicast group 228.0.0.4  
Receiving 1470 byte datagrams  
UDP buffer size: 208 KByte (default)  
-----
```

```
[ 3] local 228.0.0.4 port 45564 connected with 192.168.0.161 port 60183  
[ ID] Interval            Transfer        Bandwidth            Jitter    Lost/Total  
Datagrams  
[ 3] 0.0- 1.0 sec        129 KBytes    1.06 Mbits/sec    0.028 ms    0/ 90 (0%)  
[ 3] 1.0- 2.0 sec        128 KBytes    1.05 Mbits/sec    0.018 ms    0/ 89 (0%)  
[ 3] 2.0- 3.0 sec        128 KBytes    1.05 Mbits/sec    0.037 ms    0/ 89 (0%)  
[ 3] 0.0- 3.0 sec        385 KBytes    1.05 Mbits/sec    0.037 ms    0/ 268 (0%)
```

- Client side
- iperf -c <multicast address> -u -T 32 -t 3 -i 1 -p <multicast port>

```
iperf -c 228.0.0.4 -u -T 32 -t 3 -i 1 -p 45564
```

```
[root@host ~]# iperf -c 228.0.0.4 -u -T 32 -t 3 -i 1 -p 45564
```

```
-----  
Client connecting to 228.0.0.4, UDP port 45564  
Sending 1470 byte datagrams, IPG target: 11215.21 us (kalman adjust)  
Setting multicast TTL to 32  
UDP buffer size: 208 KByte (default)  
-----
```

```
[ 3] local 192.168.0.161 port 60183 connected with 228.0.0.4 port 45564  
[ ID] Interval            Transfer        Bandwidth  
[ 3] 0.0- 1.0 sec        131 KBytes    1.07 Mbits/sec
```

```
[ 3] 1.0- 2.0 sec 128 KBytes 1.05 Mbits/sec  
[ 3] 0.0- 3.0 sec 385 KBytes 1.05 Mbits/sec  
[ 3] Sent 268 datagrams
```

omping

omping

omping <target1_ip> <target2_ip> ...

```
[root@rocky89-1 bin]# omping 10.33.0.51 10.33.0.52  
10.33.0.52 : waiting for response msg  
10.33.0.52 : joined (S,G) = (*, 232.43.211.234), pinging  
10.33.0.52 : unicast, seq=1, size=69 bytes, dist=0, time=0.154ms  
10.33.0.52 : multicast, seq=1, size=69 bytes, dist=0, time=0.160ms  
10.33.0.52 : unicast, seq=2, size=69 bytes, dist=0, time=0.773ms  
10.33.0.52 : multicast, seq=2, size=69 bytes, dist=0, time=0.795ms  
10.33.0.52 : unicast, seq=3, size=69 bytes, dist=0, time=0.407ms  
10.33.0.52 : multicast, seq=3, size=69 bytes, dist=0, time=0.421ms  
10.33.0.52 : unicast, seq=4, size=69 bytes, dist=0, time=0.736ms
```

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