

Basic functionality tests

- IPv6-only client —> xrootd diskserver (EOS fst) dual-stack

```
[root@p05151113432846 /]# netstat -natup | grep xroot
tcp        0      0 :::1094          :::*              LISTEN      53524/xrootd
tcp        0      0 :::1095          :::*              LISTEN      54118/xrootd
```

```
[root@p05151113432846 /]# ps -ef | grep xroot
xrootd  53524  1 1 15:08 ?        00:00:08 /usr/bin/xrootd -l /var/log/xrootd/xrootd.log -c /etc/xrootd/xrootd-clustered.cfg -k fifo -l v6 -b -s
```

```
xavierc3@lxplus0046:~$ env XRD_NETWORKSTACK=IPv6 xrdcopy -f -d1 /tmp/2GB root://p05151113432846.ipv6.cern.ch//tmp/2GB
```

```
[0xc1ffd0@root://p05151113432846.ipv6.cern.ch:1094//tmp/2GB?oss.asize=2097152000] Sending a close command for handle 0x0 to p05151113432846.ipv6.cern.ch:1094
[2016-05-25 15:19:54.043396 +0200][Debug ][File ] [0xc1ffd0@root://p05151113432846.ipv6.cern.ch:1094//tmp/2GB?oss.asize=2097152000] Close returned from
p05151113432846.ipv6.cern.ch:1094 with: [SUCCESS]
[1.953GB/1.953GB][100%][=====][500MB/s]
[2016-05-25 15:19:54.058871 +0200][Debug ][TaskMgr ] Requesting unregistration of: "TickGeneratorTask for: p05151113432846.ipv6.cern.ch:1094"
[2016-05-25 15:19:54.058899 +0200][Debug ][AsyncSock ] [p05151113432846.ipv6.cern.ch:1094 #0.0] Closing the socket
[2016-05-25 15:19:54.058922 +0200][Debug ][Poller ] <[2001:1458:201:a8::100:333]:58005><--><[2001:1458:301:34::100:13]:1094> Removing socket from the poller
[2016-05-25 15:19:54.059037 +0200][Debug ][PostMaster ] [p05151113432846.ipv6.cern.ch:1094 #0] Destroying stream
[2016-05-25 15:19:54.059064 +0200][Debug ][AsyncSock ] [p05151113432846.ipv6.cern.ch:1094 #0.0] Closing the socket
```

- IPv6-only client —> EOS dual-stack:

```
[root@p05508916c58033 ~]# eos space ls
#-----
#      type #  name  ##N(fs) #N(fs-rw) #sum(usedbytes) #sum(capacity)
spaceview  ipv6    11      11      452.77 M      30.99 T
```

Standard **EOS put** from IPv6-only client:

```
08:53:53:xavierc3@lxplus0046:~$ eos cp /etc/group /eos/ipv6/test.xavi$RANDOM
[eos-cp] going to copy 1 files and 862 B
```

```
[eoscp] group          Total 0.00 MB |==| 100.00 % [0.0 MB/s]
[eos-cp] copied 1/1 files and 862 B in 0.43 seconds with 1985 B/s
```

- Next: PoC with an IPv6-only diskserver pool on EOS + dual-stack setup for permanent IPv6-only clients testing (via an specific namespace 'endpoint')