

# controller

The controller object is the physical fibre-channel interface port on the server that operate as FC targets. It is identified by the name `fc0 ... fc<n>` on FC only server and on both FC & iSCSI server it starts from `fc1`. For iSCSI operation it is referred by the generic name ``iscsi'` to represent all the physical ethernet interfaces. Know controller interface types is listed below

<code>iscsi</code>	Any network interface recognized by kernel. More control over specific network by specifying iSCSI portal tag and name.
<code>fc<i>n</i></code>	Selects the fibre channel target port as specified by the instance number <i>n</i>
<code>nvmet-rdma</code>	Any RDMA transport registered with the kernel. Typically they can be Infiniband, iWARP, or ROCE
<code>nvmet-fc</code>	Uses the NVMeoF transport provider over Fibre-Channel
<code>nvmet-tcp</code>	This uses standard TCP network interface just like iSCSI

## Usage

```
show controller
```

## Examples

```
mayaccli show controller
```

## Output

```
iSCSI on ens192:
ens192: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
  inet 10.1.1.154 netmask 255.255.255.0 broadcast 10.1.1.255
  inet6 fe80::a0ec:e248:47e5:8ad0 prefixlen 64 scopeid 0x20<link>
  ether 00:0c:29:9a:42:38 txqueuelen 1000 (Ethernet)
  RX packets 927 bytes 76926 (75.1 KiB)
  RX errors 0 dropped 0 overruns 0 frame 0
  TX packets 524 bytes 75407 (73.6 KiB)
  TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

iSCSI on ens161:
ens161: flags=4099<UP,BROADCAST,MULTICAST> mtu 1500
  inet 192.168.4.100 netmask 255.255.255.0 broadcast 192.168.4.255
  inet6 fe80::2438:8d4d:b7f2:7e02 prefixlen 64 scopeid 0x20<link>
  ether f4:52:14:2e:06:20 txqueuelen 1000 (Ethernet)
  RX packets 0 bytes 0 (0.0 B)
  RX errors 0 dropped 0 overruns 0 frame 0
  TX packets 0 bytes 0 (0.0 B)
  TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

iSCSI on ens161d1:
ens161d1: flags=4099<UP,BROADCAST,MULTICAST> mtu 1500
  ether f4:52:14:2e:06:21 txqueuelen 1000 (Ethernet)
  RX packets 0 bytes 0 (0.0 B)
  RX errors 0 dropped 0 overruns 0 frame 0
  TX packets 0 bytes 0 (0.0 B)
  TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

NVMET on ens161:
ens161: flags=4099<UP,BROADCAST,MULTICAST> mtu 1500
  inet 192.168.4.100 netmask 255.255.255.0 broadcast 192.168.4.255
  inet6 fe80::2438:8d4d:b7f2:7e02 prefixlen 64 scopeid 0x20<link>
  ether f4:52:14:2e:06:20 txqueuelen 1000 (Ethernet)
  RX packets 0 bytes 0 (0.0 B)
  RX errors 0 dropped 0 overruns 0 frame 0
  TX packets 0 bytes 0 (0.0 B)
  TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

NVMET on ens161d1:
ens161d1: flags=4099<UP,BROADCAST,MULTICAST> mtu 1500
  ether f4:52:14:2e:06:21 txqueuelen 1000 (Ethernet)
  RX packets 0 bytes 0 (0.0 B)
  RX errors 0 dropped 0 overruns 0 frame 0
  TX packets 0 bytes 0 (0.0 B)
  TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0
```