

# F5 Big-IP Advanced Troubleshooting

I work with F5 since many years and I always need some advanced troubleshooting tools which I documented here a little bit.

## CLI Commands

### Show pool members monitoring status

```
tmsh show ltm pool all members field-fmt | grep -P "(ltm\ pool|active-member-cnt|addr|monitor-status)"
```

### Count pool members with monitoring status "monitor-status checking"

```
tmsh show ltm pool all members field-fmt | grep "monitor-status\ checking" | wc -l
```

### Show Health Monitor status

Example with ICMP health monitor:

```
tmsh show ltm monitor icmp icmp
```

Answer:

Destination: 1.7.3.55:0

State time: up for 527hrs:54mins:45sec

| Last error: N/A @2019.11.12 10:58:51

Destination: 1.7.3.56:0

State time: up for 527hrs:54mins:45sec

| Last error: N/A @2019.11.12 10:58:51

Destination: 1.7.3.131:0

State time: down for 527hrs:54mins:45sec

| Last error: No successful responses received before deadline. @2019.11.12 10:58:51

Destination: 1.7.3.139:0

State time: down for 527hrs:54mins:45sec

| Last error: No successful responses received before deadline. @2019.11.12 10:58:51

## K53851362 - Displaying and deleting connection table entries from the command line

The BIG-IP connection table contains information about all the sessions that are currently established on BIG-IP system. You can display and delete the contents of the BIG-IP connection table from the command line using the tmsh connection command.

**Important:** On systems with a large number of connections, executing the following commands with a large output may result in excessive output causing device instability. It is recommended you limit the output to specific IP address and/or port combination as demonstrated in the examples below.

### Display Connection Table Entries:

1. To display the BIG-IP connection table entries for a particular virtual server, use the following tmsh command syntax:

```
tmsh show /sys connection cs-server-addr <vs_ip> cs-server-port <vs_port>
```

For example, to display the BIG-IP connection table entries for 10.10.2.2:443 virtual server, you would type the following command:

```
tmsh show /sys connection cs-server-addr 10.10.2.2 cs-server-port 443
```

2. To display the BIG-IP connection table entries for a particular client IP address, use the following tmsh command syntax:

```
tmsh show /sys connection cs-client-addr <client_ip>
```

For example, to display the BIG-IP connection table entries for 10.10.20.2 client IP address, you would type the following command:

```
tmsh show /sys connection cs-client-addr 10.10.20.2
```

3. To display the BIG-IP connection table entries for a particular pool member, use the following tmsh command syntax:

```
tmsh show /sys connection ss-server-addr <pool_member_ip> ss-server-port <pool_member_port>
```

For example, to display the BIG-IP connection table entries for 192.168.10.2:80 pool member, you would type the following command:

```
tmsh show /sys connection ss-server-addr 192.168.10.2 ss-server-port 80
```

4. To display additional information about particular connection such as Idle timeout, number of packets sent etc, use the following tmsh command syntax:

```
tmsh show /sys connection cs-client-addr <client_ip> cs-client-port <client_port> cs-server-addr <vs_ip> cs-server-port <vs_port> all-properties
```

For example, to display specific details of connection established between 10.10.20.2:51435 (client) and 10.10.2.2:443 (virtual server), you would type the following command:

```
tmsh show /sys connection cs-client-addr 10.10.20.2 cs-client-port 51435 cs-server-addr 10.10.2.2 cs-server-port 443 all-properties
```

## Delete the connection table entries:

1. To delete the BIG-IP connection table entries for a particular client IP and virtual server, use the following tmsh command syntax:

```
tmsh delete /sys connection cs-client-addr <client_ip> cs-server-addr <vs_ip> cs-server-port <vs_port>
```

For example, to delete the BIG-IP connection table entries for 10.10.20.2 client IP address and 10.10.2.2:443 virtual server, you would type the following command:

```
tmsh delete /sys connection cs-client-addr 10.10.20.2 cs-server-addr 10.10.2.2 cs-server-port 443
```

## F5 Support Solution Link

[K53851362: Displaying and deleting BIG-IP connection table entries from the command line](#)

# K7318: Overview of the bigtop utility

The **bigtop** tool is a command line utility that displays real-time statistical information for BIG-IP LTM system objects such as virtual servers and nodes. For example, the following items are displayed when using the **bigtop** utility:

- Current time
- Network activity in bits, bytes, packets, or requests
- Nodes available for virtual servers
- Current state of nodes

Example:

```
bigtop -n
```

		bits since			bits in prior			current
		Mar 23 21:59:50			4 seconds			time
BIG-IP	ACTIVE	---In---	Out---	Conn-	---In---	Out---	Conn-	12:01:37
		149.7G	2.694G	769374	6880	3584	4	
VIRTUAL ip:port		---In---	Out---	Conn-	---In---	Out---	Conn-	-Nodes Up--
/Common/192.168.20.106:443		1.431G	2.282G	261093	1856	1312	1	0
/Common/192.168.20.106:80		537.5M	410.8M	215520	5024	2272	3	0
/Common/192.168.20.107:443		1.120M	660720	105	0	0	0	0
/Common/192.168.20.107:80		7728	4888	1	0	0	0	0
NODE ip:port		---In---	Out---	Conn-	---In---	Out---	Conn-	--State----
/Common/node1:80		0	0	0	0	0	0	DOWN
/Common/node2:80		0	0	0	0	0	0	DOWN

## F5 Support Solution Link

[K7318: Overview of the bigtop utility](#)