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Subject: How to use tc to limit traffic?

Posted by [postcd](#) on Tue, 11 Mar 2014 17:01:34 GMT

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Hello, how one can use tc (man page) to limit outgoing and incoming traffic on OpenVZ virtual machines?

There is a guide:

[https://wiki.openvz.org/Traffic\\_shaping\\_with\\_tc#Limiting\\_incoming\\_bandwidth](https://wiki.openvz.org/Traffic_shaping_with_tc#Limiting_incoming_bandwidth)

says:

Quote:

Limiting outgoing bandwidth

We can limit container outgoing bandwidth by setting the tc filter on eth0.

DEV=eth0

```
tc qdisc del dev $DEV root
```

```
tc qdisc add dev $DEV root handle 1: cbq avpkt 1000 bandwidth 100mbit
```

```
tc class add dev $DEV parent 1: classid 1:1 cbq rate 256kbit allot 1500 prio 5 bounded isolated
```

```
tc filter add dev $DEV parent 1: protocol ip prio 16 u32 match ip src X.X.X.X flowid 1:1
```

```
tc qdisc add dev $DEV parent 1:1 sfq perturb 10
```

X.X.X.X is an IP address of container.

[edit] Limiting incoming bandwidth

This can be done by setting the tc filter on venet0:

DEV=venet0

```
tc qdisc del dev $DEV root
```

```
tc qdisc add dev $DEV root handle 1: cbq avpkt 1000 bandwidth 100mbit
```

```
tc class add dev $DEV parent 1: classid 1:1 cbq rate 256kbit allot 1500 prio 5 bounded isolated
```

```
tc filter add dev $DEV parent 1: protocol ip prio 16 u32 match ip dst X.X.X.X flowid 1:1
```

```
tc qdisc add dev $DEV parent 1:1 sfq perturb 10
```

Note that X.X.X.X is an IP address of container.

I see these are commands, probably need to run one by one?

But first is DEV=venet0 and DEV=eth0 , so im unsure how to limit certain container in example?

Thanks if you have any idea

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Subject: Re: How to use tc to limit traffic?

Posted by [Ales](#) on Wed, 12 Mar 2014 00:20:33 GMT

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Well, commands like this are usually put into a script, so you can easily repeat them or make them run automatically after each reboot.

DEV variables should be set according to your environment - it's quite possible that eth0 and venet0 are the correct values. Also, you must set the IPs (note the X.X.X.X in the code). That's how you limit a certain container - by specifying its IP.

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