



ANKUR SHETH <sankur91@gmail.com>

Regarding queue size for each queue configured on openvswitch by using SDN (RYU) controller

6 messages

ANKUR SHETH <sankur91@gmail.com>
To: ovs-discuss@openvswitch.org

Fri, Oct 20, 2017 at 10:37 PM

Hello,

I am currently working on the queue control and bandwidth control for openvswitches using the SDN controller.

I am able to configure the multiple queues with required max and min bandwidth rates) for the egress port , but I also want to limit the size of the queue for the egress traffic for a particular port, which I am not able to do.

I actually intend to control the buffer size for the ingress as well as egress traffic via openvswitch.

Could you please suggest on how I can achieve it or guide me to some documentation. Any help is appreciated.

Regards,
Ankur

Ben Pfaff <blp@ovn.org>
To: ANKUR SHETH <sankur91@gmail.com>
Cc: ovs-discuss@openvswitch.org

Sat, Oct 21, 2017 at 2:25 PM

On Fri, Oct 20, 2017 at 10:37:27PM -0700, ANKUR SHETH wrote:

> I am currently working on the queue control and bandwidth control for
> openvswitches using the SDN controller.
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> bandwidth rates) for the egress port , but I also want to limit the size of
> the queue for the egress traffic for a particular port, which I am not able
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> egress traffic via openvswitch.
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> Could you please suggest on how I can achieve it or guide me to some
> documentation. Any help is appreciated.

OVS doesn't have queues of its own, so this is a matter of configuring Linux devices' traffic control, with "tc". If you figure out appropriate commands to do that, and you think that OVS should be able to configure them for you, let us know and we can talk it over.

ANKUR SHETH <sankur91@gmail.com>
To: Ben Pfaff <blp@ovn.org>

Mon, Nov 13, 2017 at 11:52 AM

Hello Ben,

Thank you so much for your response. I appreciate your time and cooperation.

Now that I have figured out its not possible to manage the buffer size using linux tc, I would like to work on the buffer for the openvswitch.

Could you let me know if there is buffer in openvswitch where the packets are stored or if I need to create a buffer? I have found the functions related to the buffer size in the lib folder of openvswitch, but I am not able to understand where the

function `byteq_init()`, etc. are called.

Could you point me to the correct documentation where I can find the details about how the packet is processed in the openvswitch so that I can create a buffer and then manage its size using the `byteq_init()` function which is defined in the `lib` folder of openvswitch.

Awaiting for your response.

Regards,
Ankur

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Ben Pfaff <blp@ovn.org>
To: ANKUR SHETH <sankur91@gmail.com>
Cc: discuss@openvswitch.org

Mon, Nov 13, 2017 at 12:14 PM

OVS doesn't have queues of its own. If you want to control queuing for the Linux kernel datapath, and the existing Linux network queuing disciplines don't do what you want, you should create a new Linux network queuing discipline that does what you want.

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ANKUR SHETH <sankur91@gmail.com>
To: Ben Pfaff <blp@ovn.org>

Wed, Nov 15, 2017 at 5:08 PM

Hello Ben,

Thank you so much for your time and response to my queries.

Is there any way by which I can work on the buffer management of the openvswitch, as I am excited and aiming to have a queue control mechanism (including the buffer size control using the buffers and bandwidth control using the Linux TC queuing discipline (more specifically HTB). Could you suggest me the appropriate documentation or any other information for the same.

Awaiting for your response.

Your help is highly appreciated.

Regards,
Ankur

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Ben Pfaff <blp@ovn.org>
To: ANKUR SHETH <sankur91@gmail.com>

Wed, Nov 15, 2017 at 8:12 PM

This website may be a good place to dig in:

<http://lartc.org/>

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