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shaping tomorrow with you

Performance Evaluation

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(Fujitsu Laboratories)

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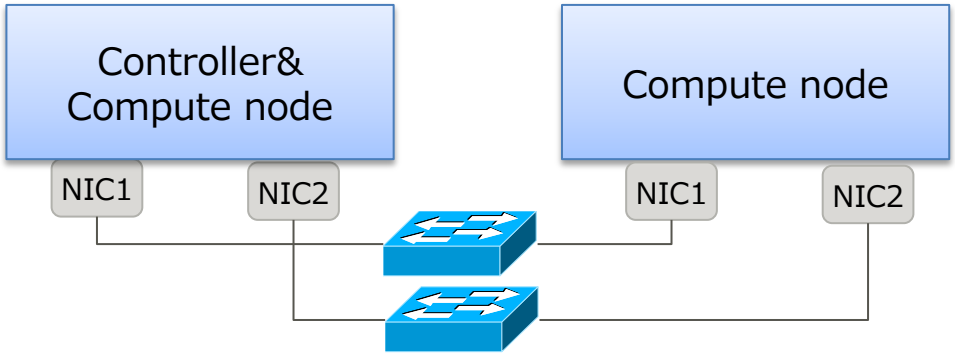
Test Bed



Spec

	Physical server	VM
CPU	Xeon X2640 v2 2.0GHz (8 cores/16 threads)	2 vcpus
Memory	32GB	4GB
HDD	1TB	40GB
NIC	1GbE NIC x2	1GbE NIC
OS	Ubuntu 14.04	CentOS 7.1

Benchmark

iperf-2.0.8

- Parameters

  iperf -u -c <dst> -l <size> -b 1G -t 10 -P 2

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Double Back at br-tap

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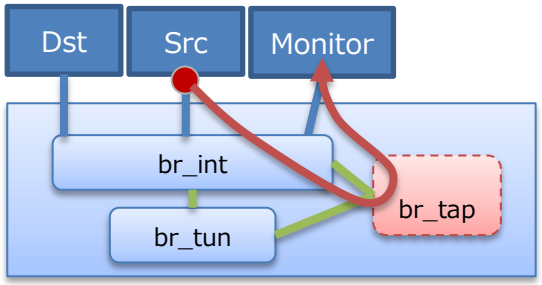
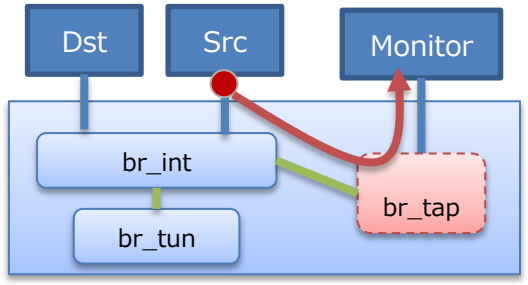
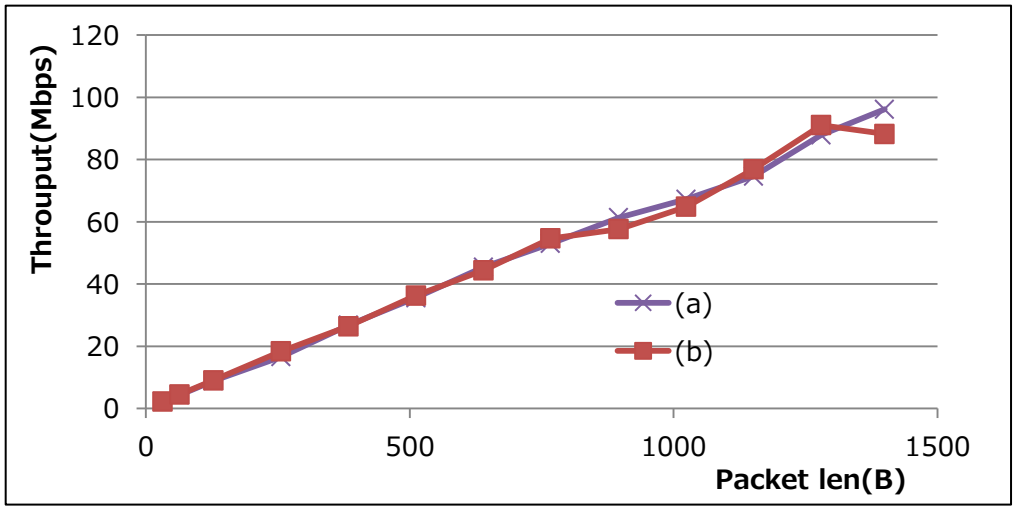
(a) Original design



(b) Our proposal





- As Yamamoto suggested on IRC meeting, there is no significant difference between (a) and (b).

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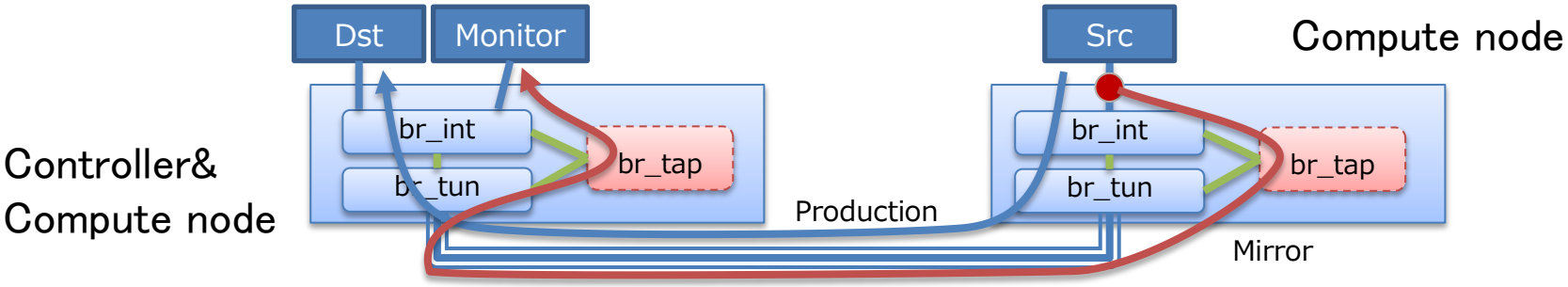
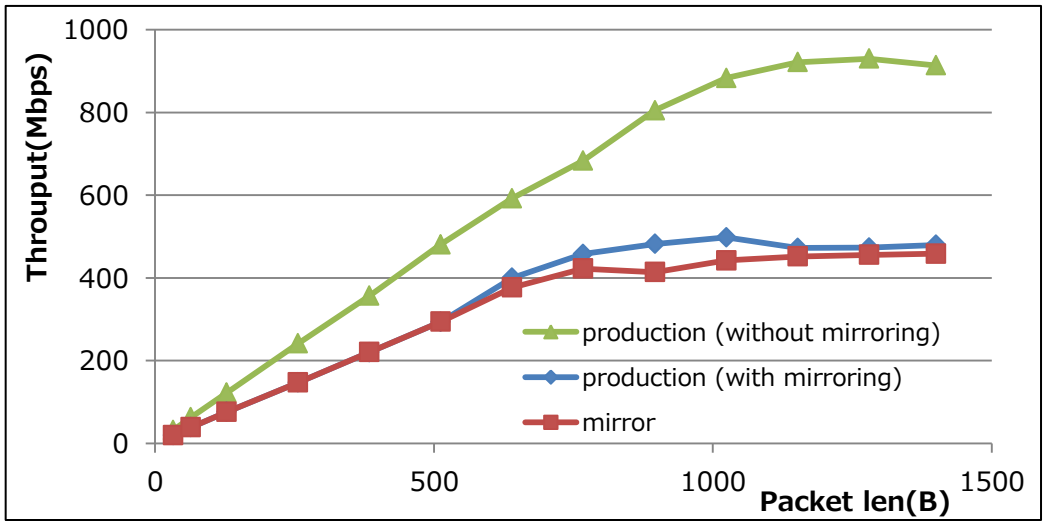
Evaluation (In case of Original design)





- Production traffics were peaked out at 500Mbps.
  - Bandwidth of production traffic can be squeezed by mirror traffic.
  - Reservation of bandwidth and/or QoS control will be required.

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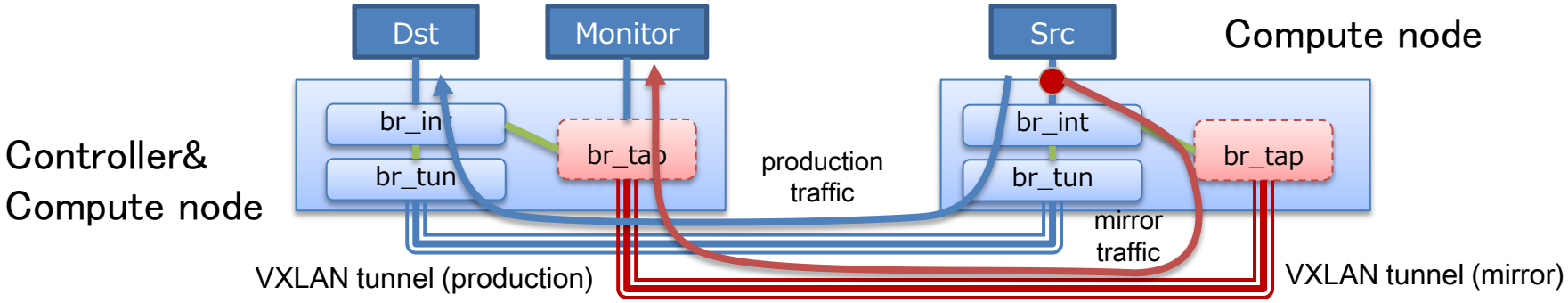
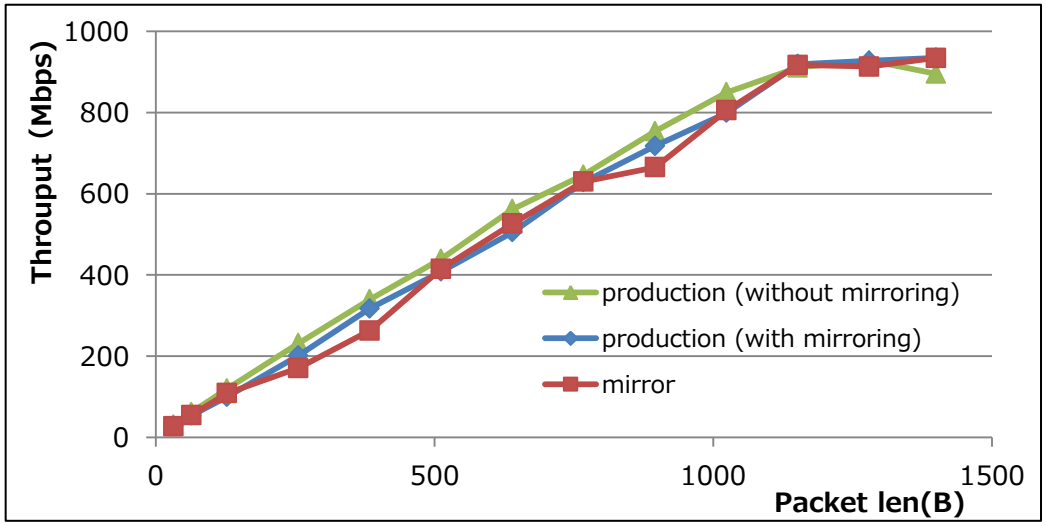
Evaluation (In case of Our proposal)

- Dedicated VXLAN tunnel for mirrored traffics.
- Map production and mirror traffics to different NICs each other.





- Production traffic can be mirrored up to (nearly) 1Gbps.

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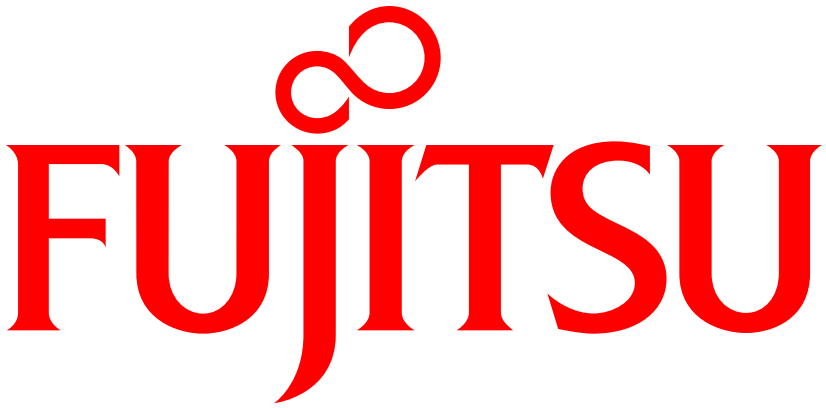

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