

VM mobility demonstration over backbone EVPN

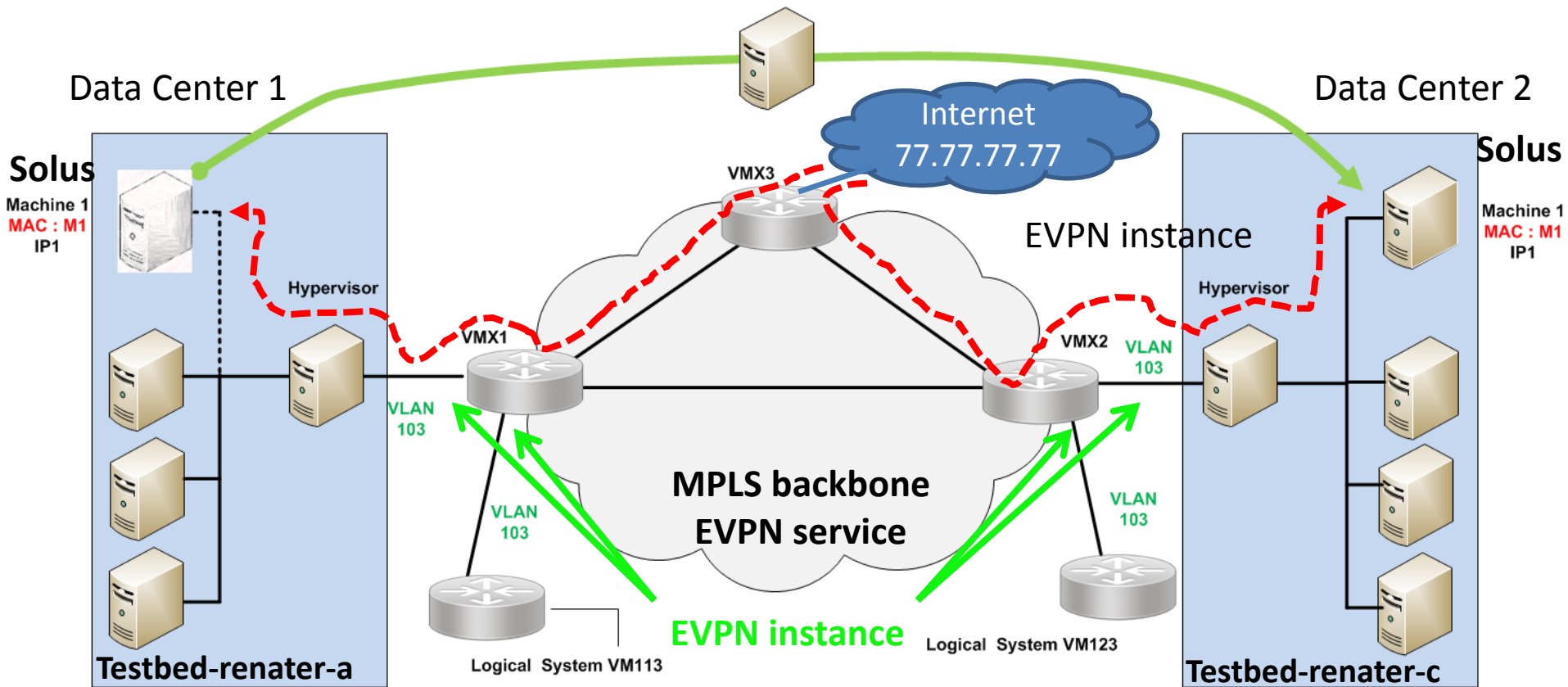
Yann Dupont Nantes University

Xavier Jeannin RENATER

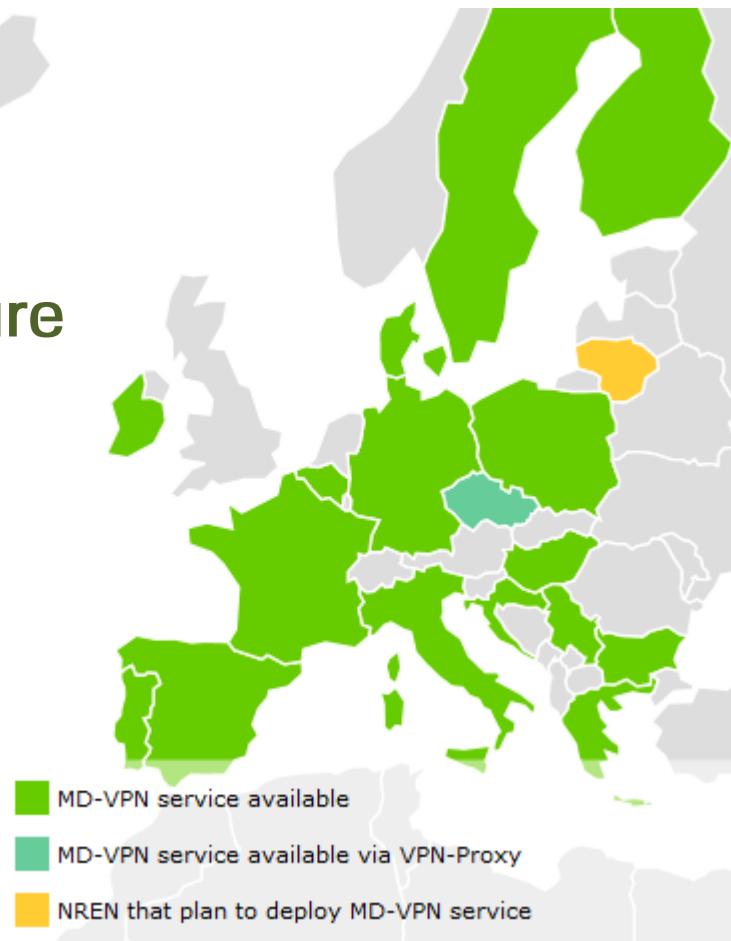
SA3T2 GN4 phase 1

LCG France Lyon 2015

Tested Nantes University

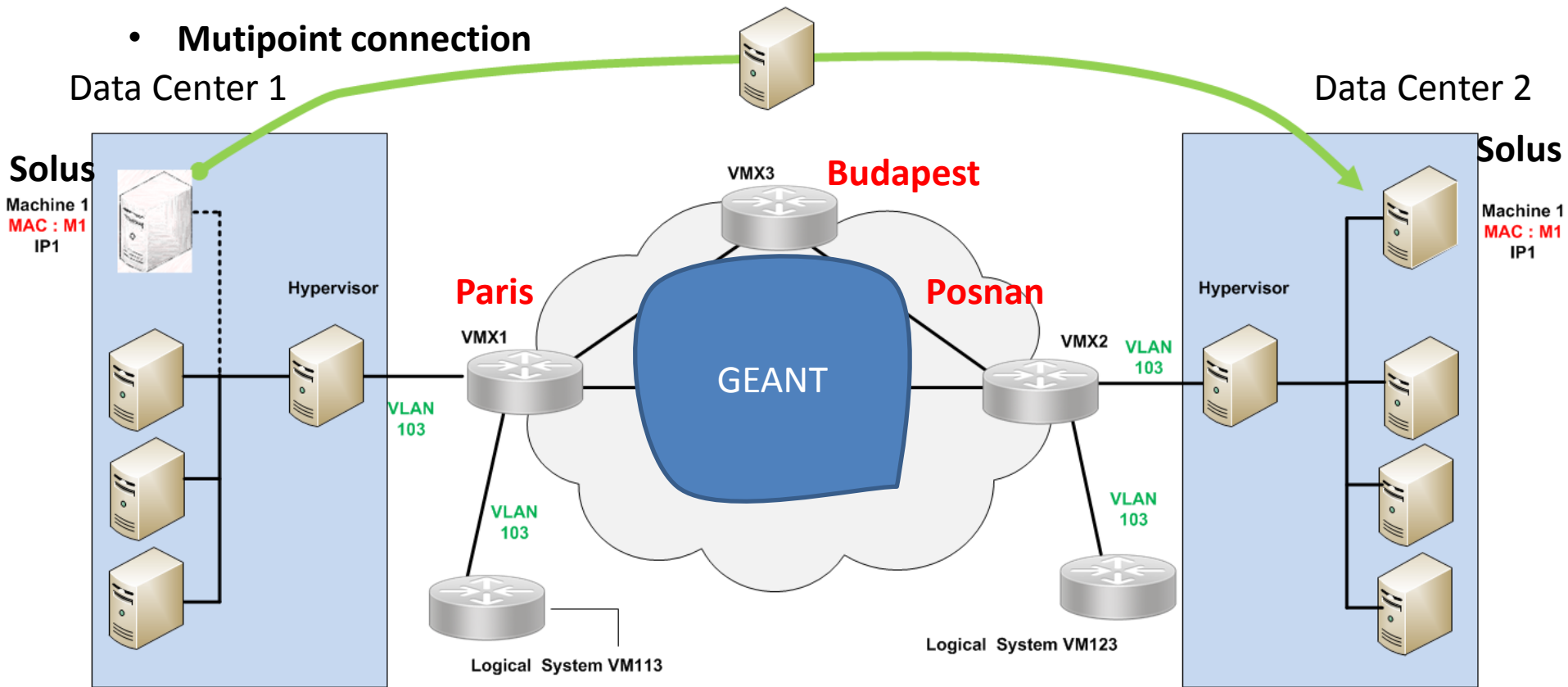


- **EVPN deployment in Europe**
 - Thanks to MD-VPN infrastructure
 - Over IP thanks to VXLAN



VM mobility PoC

- **Multipoint connection**

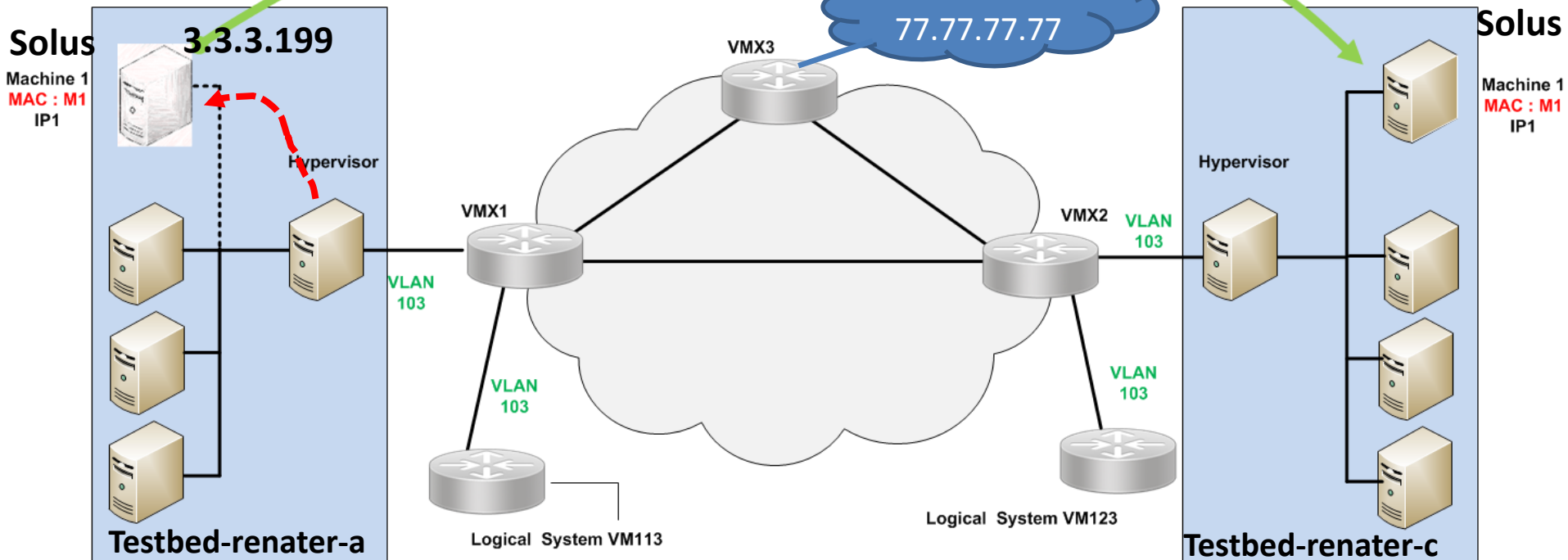


Tested Nantes University

Step 1

Data Center 1

Data Center 2



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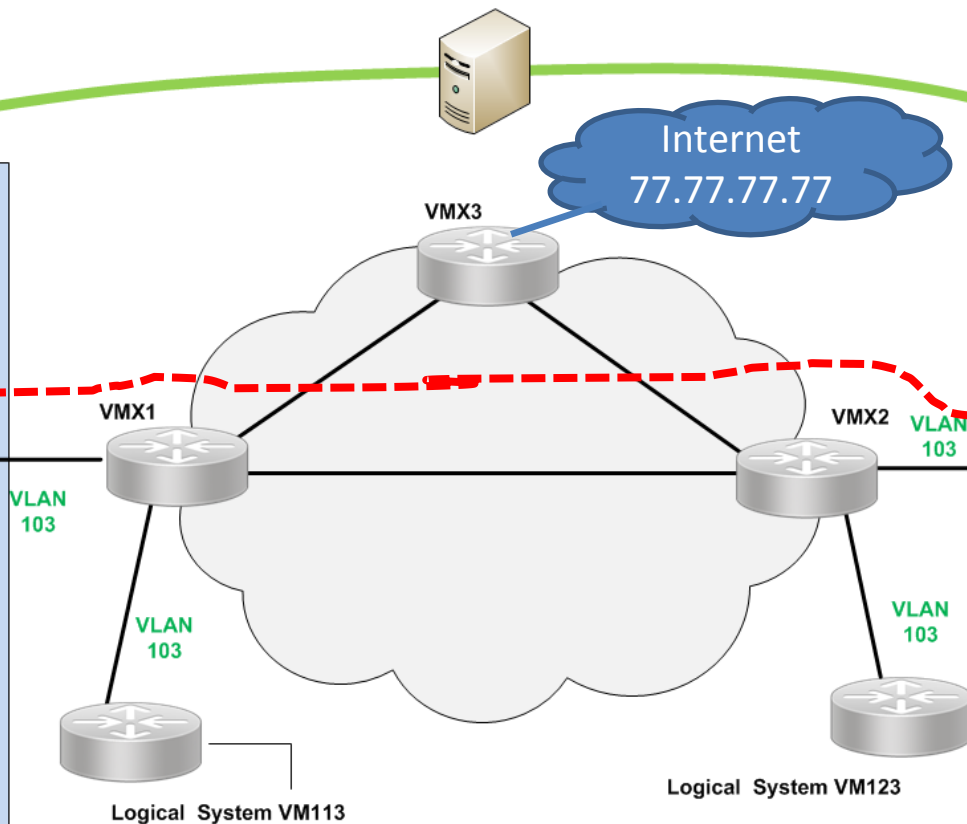
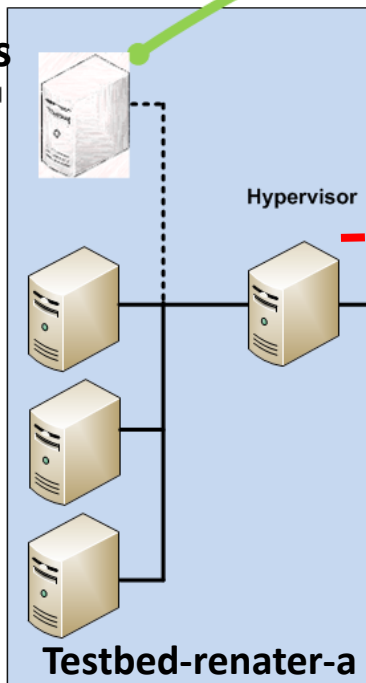
Step 2

Data Center 1

Data Center 2

Solus

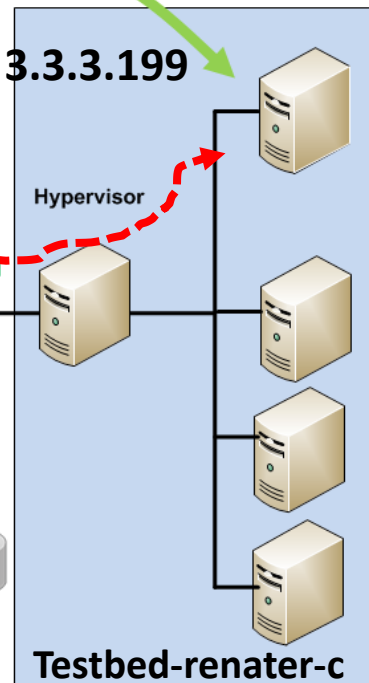
Machine 1
MAC : M1
IP1



3.3.3.199

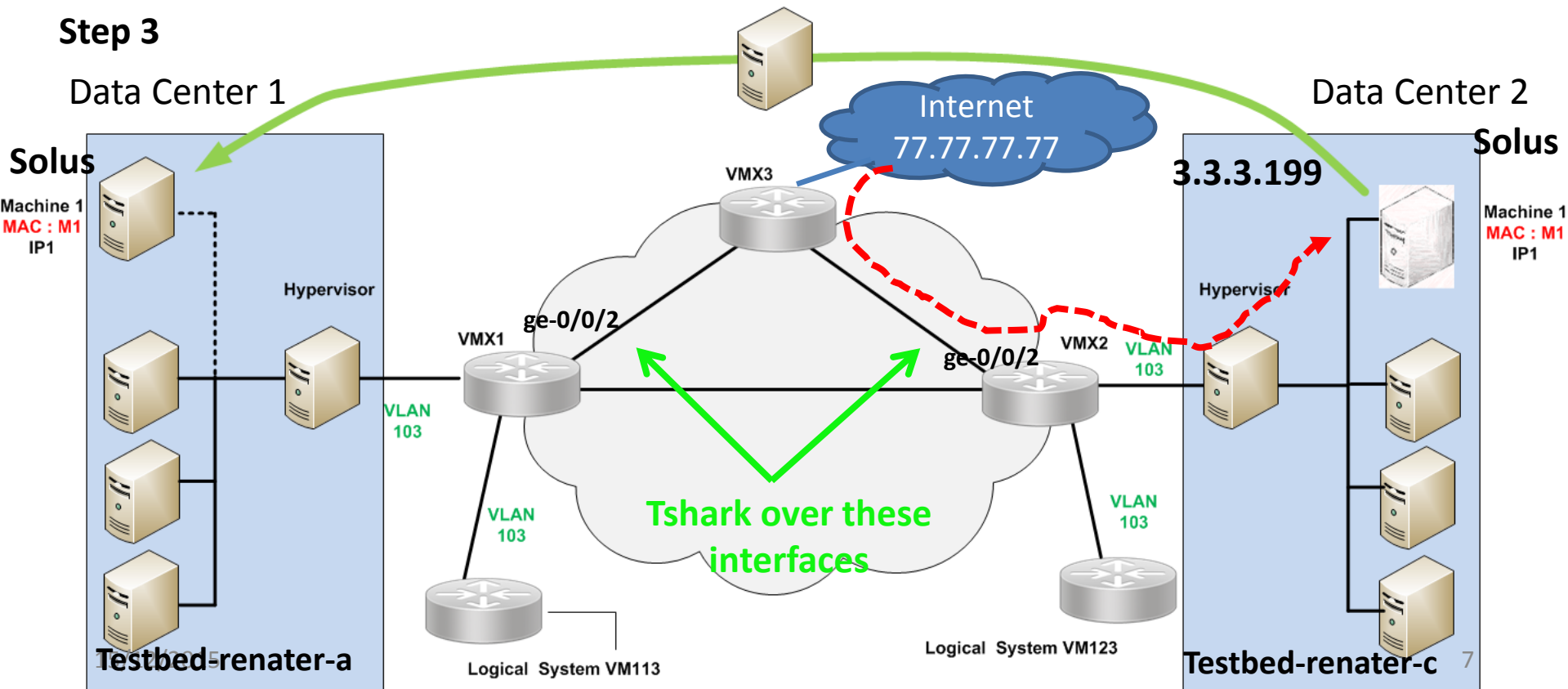
Solus

Machine 1
MAC : M1
IP1



Routing optimization proof

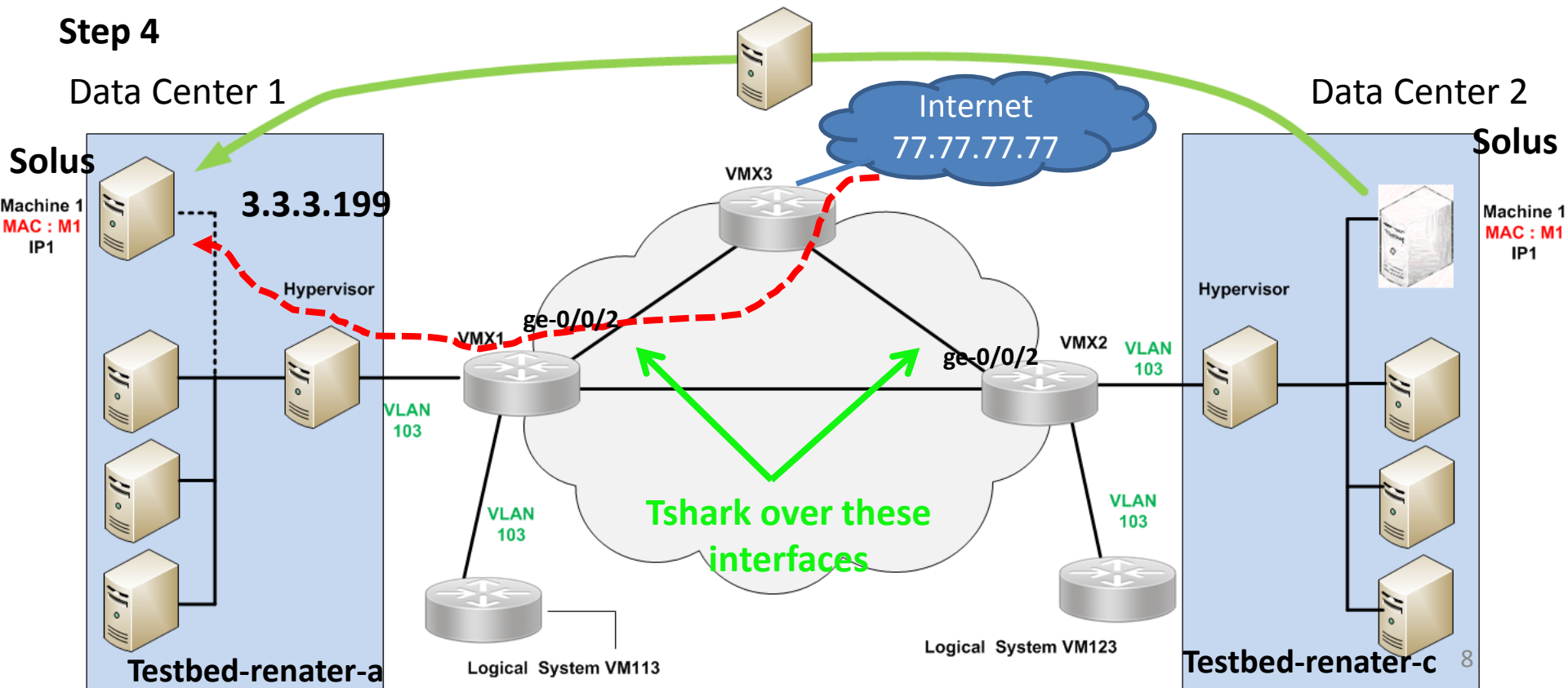
Step 3



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Routing optimization proof

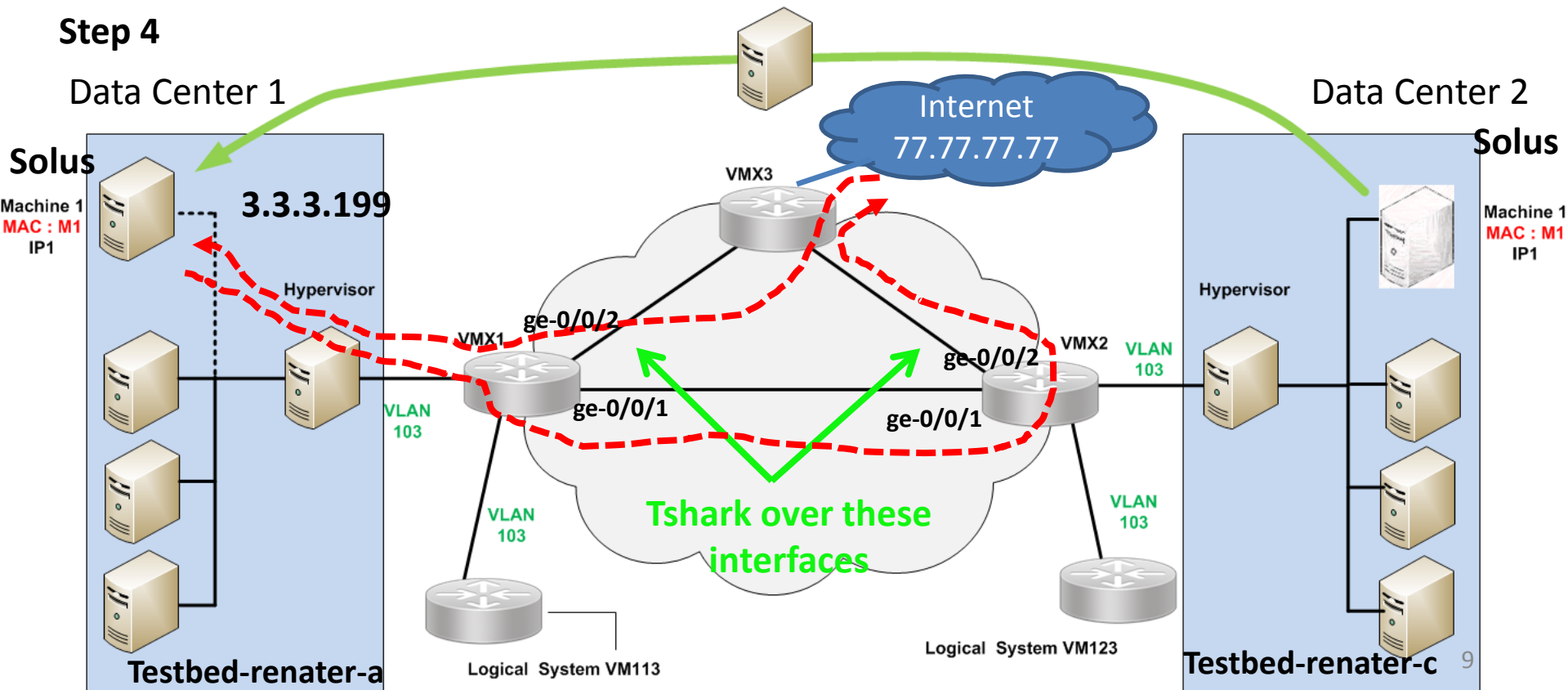
Step 4



What happens in fact ?

Routing optimization proof

Step 4



Conclusion

- Even if there is a small bug in MPLS control plane (routing trouble), **the routing optimization seems to work**

