

CSIT TOI

CSIT Physical testbeds

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CSIT Physical testbeds

- Physical testbed hardware overview.
- Physical testbed topology files.
- Physical testbed test execution.





Physical testbed hardware overview

- Hosted in Linux Foundation.
- 3 testbeds (today)
 - Haswell Intel Xeon CPU E5-2699 v3 @ 2.30GHz (2x18cores).
 - BIOS optimized.
 - OS optimized.
 - Testbeds wired in 3-node topology (various NICs 10/40GE, QAT).
 - Full inventory: https://wiki.fd.io/view/CSIT/CSIT_LF_testbed.





Physical testbed hardware overview

- New testbeds under construction/delivery
 - Skylake Intel Platinum CPU 8180 @ 2.50GHz (2x28cores).
 - Testbeds wired in 2-node / 3-node (various NICs 10/25/100GE).





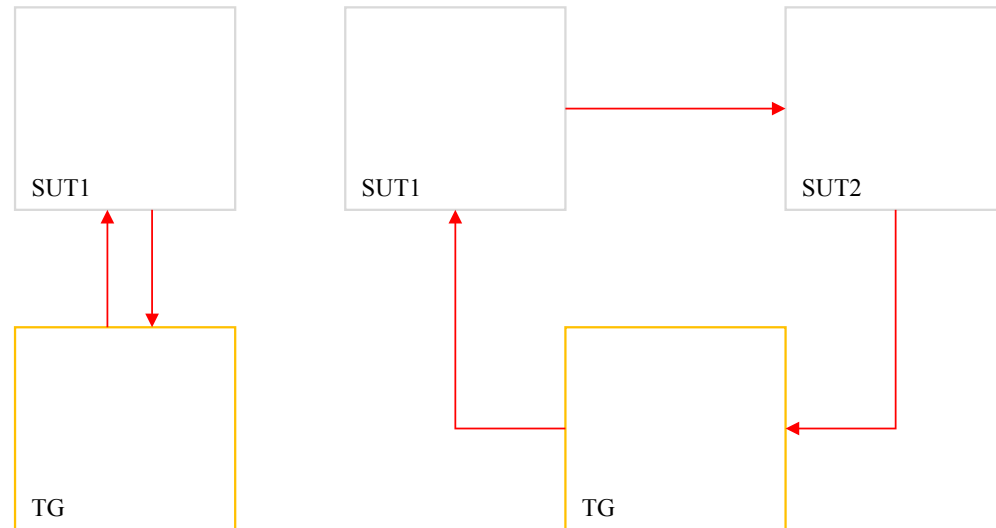
Physical testbed software overview

- 3 testbeds
 - Ubuntu 16.04.1 LTS.
 - Nested VM used for Vhost tests
 - Buildroot 2017.05.2 (<https://buildroot.org/downloads/manual/manual.html>).
 - Low footprint for VIRT, DPDK included, same optimization rules.
 - Kubernetes, Docker, LXC
 - Full inventory: https://wiki.fd.io/view/CSIT/CSIT_LF_testbed.
- Installed by PXE/Ansible
 - <https://git.fd.io/csit/tree/resources/tools/testbed-setup>



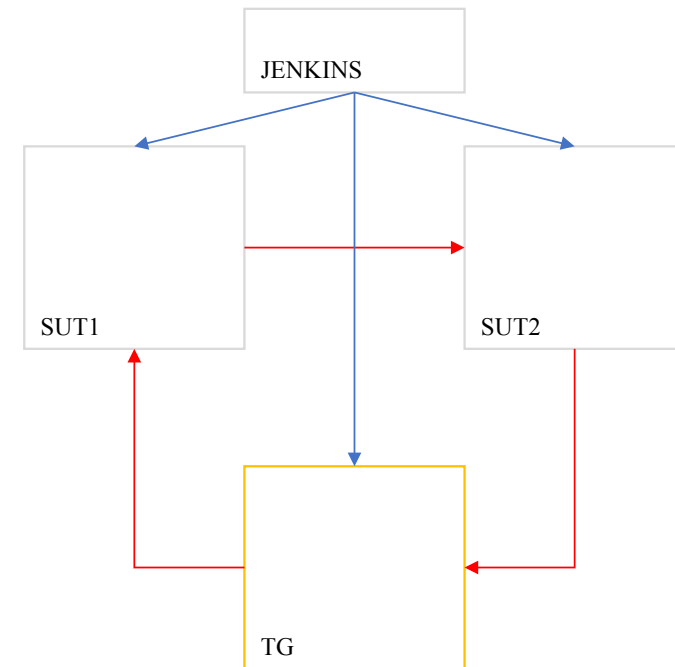
Physical testbed topology files

- Defining topology.
- Links between nodes.
- Addressing.
- NIC types.



Physical testbed test execution

- Jenkins driven in LF (jobs).
- Manually running Pybot.





Q&A

