VSperf Home

Project: NFVI Network Performance for Telco NFV

VSperf provides an automated test-framework and comprehensive test suite based on industry standards for measuring data-plane performance which includes switching technologies with physical and virtual network interfaces. The VSperf architecture is switch and traffic generator agnostic and test cases can be customized. The vSwitch and other software component versions and configurations are controlled by VSperf as is the network topology. VSperf is useful for development of switching technologies as well as for evaluation and optimization of the data-path.

Details about vsperf installation, configuration, features and supported testcases are available at official documentation.

Key Project Facts

INFO (source from vswitchperf)

<table>
<thead>
<tr>
<th>Project: Data-plane performance testing and benchmarking</th>
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<tr>
<td>Creation Date: December 16th, 2014</td>
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<tr>
<td>Category: Integration &amp; Testing</td>
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<td>Lifecycle State: Mature</td>
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<td>Jira name vSwitch Characterization</td>
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<td>JIRA tag : VSperf</td>
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<td>Repository: vswitchperf</td>
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<td>Mailing list tag: [vsperf]</td>
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<td>IRC: Server:freenode.net Channel: #opnfv-vswitchperf</td>
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<td>Link to TSC approval of the project:</td>
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<td><a href="http://meetbot.opnfv.org/meetings/opnfv-meeting/">http://meetbot.opnfv.org/meetings/opnfv-meeting/</a></td>
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How to subscribe to mailing list topic: http://www.gnu.org/software/mailman/mailman-member.pdf (section 9.2)

Processes and Methodology: VSPERF Test Methodology

Test Specification Etherpad: https://etherpad.opnfv.org/p/vSwitchPerfTestSpec

Coding Guidelines: OPNFV Coding Guidelines

OPNFV Developer Resource Page: Getting started with your account, Gerrit and Git

JIRA Getting Started Guide: Getting started with JIRA

Git, Gerrit, Documentation and Artifacts

Git: https://git.opnfv.org/vswitchperf

Gerrit: https://gerrit.opnfv.org/gerrit/#/q/vswitchperf. To Clone: https://gerrit.opnfv.org/gerrit/vswitchperf

Documentation: http://artifacts.opnfv.org/vswitchperf/docs/index.html

Branching Model: https://wiki.openstack.org/wiki/Branch_Model

Vswitchperf artifacts: http://artifacts.opnfv.org/vswitchperf.html

VSPERF TEST ENVIRONMENT (INTEL OPNFV LAB - POD 12)

- VSPERF Testing in Intel Pharos Lab (POD 12)
- Intel Pod 12 Network Configuration
- Intel Pod 12 Booking Calendar

Project Links

- Vswitch Project Proposal
- Traffic Generator Working Group
- Vswitch Release Plan
- Vswitchperf Contributions to Testing Specifications
- VSPERF CI

Test Results

- Traffic Generator Testing (Comparison of Traffic Generators)
- VSPERF CI Baseline Results

Documentation

- VSPERF Documentation for Danube

List of Candidate Work Items
Vswitch Work Items
Vswitch Test List

**Project Meetings**
- Meeting calendar of "vSwitch Performance"
- VSPERF Meeting Details + Minutes

**Governance and Patch submission**
- "vSwitch Performance Characterization" Governance Model proposal
- "vSwitch Performance Characterization" Patch Submission

**Overviews**
- Vswitch Readouts
- LTD Test Spec Overview
- Framework Overview
- VSPERF Deployment Topology Description Scheme

**Test Results**
- Vsperf Results

**Golden Deck**

VSPERF_Golden.pptx