

Spirent HyperScale Test Solution

Ultimate Scale Test of a Cloud Data Center

Features

- Orchestrate thousands of VMs, across major cloud platforms
- Turn up to million test ports
- Discover vNetworks and associate it to the spawned Spirent TestCenter VM
- Global dashboard of the entire test case; Parallel and distributed test case
- On-demand ports configuration
- Supports ESXi and KVM
- Layer 2-7 traffic
- Easy to deploy VM images and upgrades

Benefits

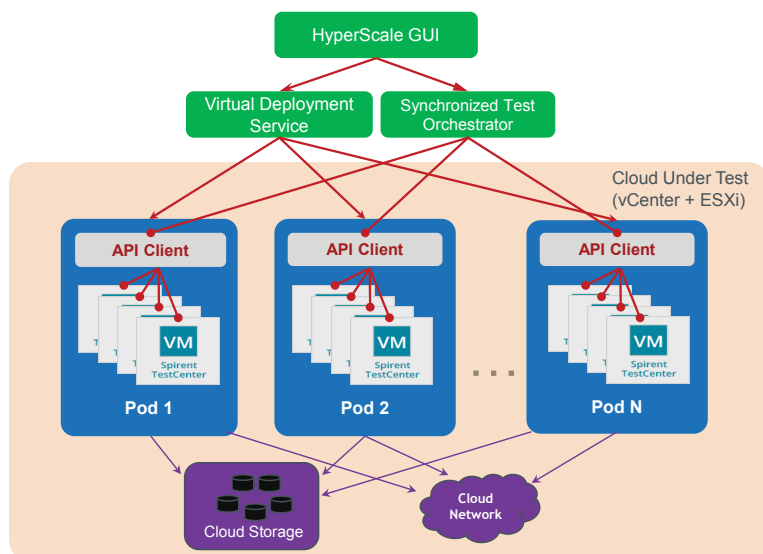
- Orchestrate large scale testbeds
- Easy turn up and tear down of test VMs and infrastructure setup
- Effective maintenance on upgrades and downgrades

With increased adoption of Cloud Computing, more and more companies are looking to transform their data centers infrastructure progressively breaking away the rules of traditional IP networks. Ensuring next-gen networks and virtual devices behave intuitively based on the configurations and scale continues to be a challenge. As a cloud or service provider, you need to validate the infrastructure to handle thousands of VMs and meet the traffic requirements of a modern cloud datacenter. Testing at such extreme scales cannot be done with your usual test tools.

Spirent HyperScale test solution is the industry's first solution to meet extreme scale testing needs. Its modular approach can simulate thousands of real-world environments to test and validate your entire data center infrastructure with following components.

Synchronized Test Orchestrator: This is a software module that manages test cases across the entire testbed. It is designed to synchronize all the VMs to give you a large scale test.

Virtual Deployment Service (VDS): This is a software module that automatically spins up Virtual Machines (VMs), in each tenant thereby saving time during test bed upgrades. VDS consists of Python libraries that allow you to manage test assets like Spirent HyperScale and TestCenter Virtual across different cloud platforms. VDS functionality is exposed as a set of REST API commands, with which you can perform complete lifecycle management of Spirent Virtual offerings.



Spirent HyperScale Test Solution

Ultimate Scale Test of a Cloud Data Center

About Spirent Communications

Spirent Communications (LSE: SPT) is a global leader with deep expertise and decades of experience in testing, assurance, analytics and security, serving developers, service providers, and enterprise networks.

We help bring clarity to increasingly complex technological and business challenges.

Spirent's customers have made a promise to their customers to deliver superior performance. Spirent assures that those promises are fulfilled.

For more information, visit: www.spirent.com

AMERICAS 1-800-SPIRENT
+1-800-774-7368
sales@spirent.com

US Government & Defense
info@spirentfederal.com
spirentfederal.com

EUROPE AND THE MIDDLE EAST
+44 (0) 1293 767979
emeainfo@spirent.com

ASIA AND THE PACIFIC
+86-10-8518-2539
salesasia@spirent.com

Key advantages

Large scale test bed orchestration with Spirent HyperScale allows you to test and validate up to a million VMs coming up online and generating traffic. VDS can be leveraged to spawn these test VMs at huge scale to simulate the real-world traffic condition.

Turn up and tear down of test VMs to minimize the time spent on test infrastructure setup and orchestrate the test VMs in a simplistic and rapid manner. On-demand automated provisioning of the testbed in the DevOps cycle expedites the testing experience and helps organizations deliver their solution.

Rapid deployment and upgrade of the infrastructure allows for easy maintenance—especially when the testbed is huge and the time consumption is multi-fold. With the help of VDS, old VMs can be redeployed with the new image and be easily upgraded with new features and bug fixes.

Technical specifications

Features	Description
Supported cloud platforms	VMware vCenter + ESXi OpenStack + KVM
Hardware requirements	Any x86 server
Scale	Million VMs
Topology	Linear, mesh, custom
Load	Traffic, StorageIO
Component /Features	Spirent TestCenter Virtual <ul style="list-style-type: none">• 1-3 vCPU, 2GB of RAM, upto 10 vNIC, multiple mount points• Traffic: Layer2-3, TCP, HTTP, Multicast• StorageIO: Reads/writes, random/sequential/custom Virtual Deployment Service <ul style="list-style-type: none">• 1 vCPU, 1GB of RAM, 1 NIC• API-driven• Clone VMs, vNICs, connect VMs to vSwitches, start/stop VMs, pre-configure VMs, tear down VMs Synchronized Test Orchestrator <ul style="list-style-type: none">• Synchronous start/stop of test cases• Collect real-time test results• Capture results from VMs in to HyperScale GUI