TeraVM™ at Cisco

TeraVM is a software based L2–7 test tool running on x86 servers and in the Cloud (Azure, Amazon, Google, Openstack etc.), delivering a fully virtualized application emulation and security validation solution to test and secure devices, networks and their services.

Why TeraVM?

- **Cisco custom-specific test capabilities**
- **Flow based tool with realism**
  - Provides per-flow statistics in real time
  - Statefully emulates and measures individual endpoint and application performance for data, voice, video and security services
  - Easily pinpoint and isolate problem flows and bottlenecks
- **Adaptive engine**
  - Dynamically and automatically find the maximum capacity of Devices Under Test
  - Same test profile can be used for multiple platforms
- **Centralized License Server/Elastic Test Bed**
  - Scale with realism and grow on demand with license sharing across geographical locations
  - Flexibility to run anywhere... lab, datacenter and the cloud, with consistent performance coverage
  - Sharing test resources and methodologies delivering the most cost-effective solution
  - Shareable Cybersecurity threat database, maximizing resource utilization and total cost of ownership
  - Auto License Check-In on test completion

Cisco Test Coverage

TeraVM includes Cisco specific endpoint emulation and real time measurements.

- **Dynamic IPv6 Assignment for AnyConnect VPN Client**
- **Cisco AnyConnect SSL VPN Client**
- **Cisco AnyConnect with SAML authentication (ASA, FTD, Meraki)**
- **Cisco AnyConnect IPSec IKEv1/IKEv2 VPN Client**
- **Cisco NetFlow Records, NetFlow Exporter Emulation**
- **Cisco Identity Services Engine (ISE) with 802.1X client**
- **Cisco Umbrella SGW**
- **Captive Portal testing**
- **Cisco TelePresence**
- **Cisco WebEx**
- **Cisco Phones**
- **Cisco Video Clients**
- **Cisco DNA Center**
- **Mobile phones for Security Gateway**
- **IoT Device**
- **Cisco AnyConnect STRAP (Session Token Re-use Anchor Protocol) Support**
- **Cisco AnyConnect TLS SNI Extension support**
- **Dynamic IPv6 Assignment for AnyConnect AnyConnect SSL VPN Client**
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Key Facts

TeraVM is 100% virtual

- Supports all major hypervisors – ESXi, KVM
- Supports all major cloud platforms – OpenStack, AWS, MS-Azure, Google Cloud, Oracle OCI, Alibaba, Docker, Kubernetes

Automation and Orchestration

- REST, CLI, Perl, TCL, XML, Java API, Python, Jython
- Cisco LaasNG, Cisco pyATS, Qualisystems (CloudShell)

L2–7 Stateful Traffic Application Emulation

- Voice
- Video
- Data

Secure Access Firewall/VPN (ASA Firewall, FirePOWER)

Cybersecurity Threat and Malware Penetration

- 40,000+ attacks (Spam, Viruses, DDoS, Malware), updated monthly
- DDoS attack applications
- Mixed application flows

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