TeraVM™ – TVM-R620/TVM-R420: 1U Rack Servers Preloaded with TeraVM
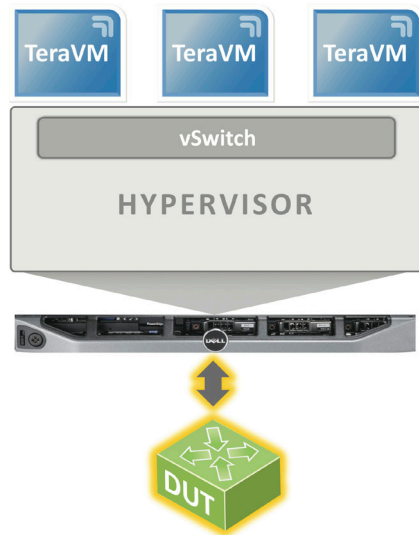

Figure 1: TVM-R620/R420

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Physical Device Under Test (DUT)

- Firewall

- VPN

- Router

- Switch

- Deep Packet Inspection (DPI)

- IPS/IDS

- Load Balancer

- Video Infrastructure

TVM-R620
- 1U Rack Server
- 2 x Intel Xeon E5-2690
- 4 x 10GbE test interfaces
- 1 year parts & labor warranty

TVM-R420
- 1U Rack Server
- 2 x Intel Xeon E5-2470
- 4 x 1GbE test interfaces
- 1 year parts & labor warranty

Configuration
- 1U Rack Server
- 2 x Intel Xeon E5-2470
- 4 x 1GbE test interfaces

Overview

Shenick offers both the TVM-R620 and TVM-R420 as pre-packaged bundles of TeraVM on industry standard hardware. Both products utilize off the shelf Dell PowerEdge 1U rack servers and come with TeraVM preloaded and preconfigured. TVM-R620 comes with four 10 GE SFP test ports and is for customers that need a 10 GE test bed. TVM-R420 comes with four GE (RJ-45) test ports and is for customers that need a GE test bed.

Both products are ideal for customers that want the unique benefits of TeraVM such as an elastic test bed without the need to purchase hardware separately and configure TeraVM themselves. With these turnkey solutions customers can begin testing with TeraVM straight out of the box without the need for any virtualization skills or knowledge.

Shipped Configuration

Both products ship ready to use with all the necessary components such as a controller and license server bundled into the 1U platform. After powering on, test cases can be easily generated via the TeraVM graphical interface or via the powerful test automation environment.

Many customers will utilize TVM-R620/TVM-R420 as a stand alone test platform to reliably and repeatably test a device or network under test. However, because they are both powered by TeraVM the platform is future proofed and can be scaled to a fully functional elastic test bed as required. Also, additional TVM-R620/TVM-R420 units can be added to increase throughput requirements all the way up to a terabit or more. TVM-R620/TVM-R420 can also be geographically distributed to allow sharing of TeraVM licenses across multiple test locations.

HARDWARE OVERVIEW

Features	TVM-R620	TVM-R420
Hardware	Dell PowerEdge R620	Dell PowerEdge R420
Size	1U Rack Server	1U Rack Server
Target Customer	Test with 10GE ports	Test with GE ports
Processor	2 x Intel Xeon E5-2690	2 x Intel Xeon E5-2470
CPU Detail	16 total CPU cores @ 2.9 Ghz each	16 total CPU cores @ 2.3 Ghz each
Hard Drive	500 GB	500 GB
RAM	64 GB	64 GB
Test Interfaces	4 x 10GbE	4 x 1GbE
Management Interfaces	2 x GE (RJ-45)	4 x GE (RJ-45)
Other Media Interfaces	USB & Serial Port	USB & Serial Port
Power Supply	750 watt	550 watt
Rack Rail	Sliding rails without cable management arm	Sliding rails without cable management arm
Hardware Warranty	1 year parts & labor	1 year parts & labor
RMA	Advanced replacement by Shenick	Advanced replacement by Shenick
SR-IOV Ready	Yes	No

FEATURES

GENERAL
Real-time isolation of problem flows

DATA
TCP / UDP, HTTP (headers, substitution, attachments), SMTP / POP3 (incl. file attachments), FTP (Passive/Active), P2P applications, DNS

ADDRESS
MAC, VxLAN, DHCP, PPPoE (IPv4 & IPv6), Dual Stack (6RD, DS Lite)

ETHERNET SWITCH
VLAN and Double VLAN Tagging (Q-Q), ACL, 802.1p, DSCP

REPLAY
Replay large PCAP files - TCP, UDP and raw data playback, Amplify and dynamically substitute data into PCAP files

VIDEO
Multicast: IGMP v1/v2/v3 & MLD v1/v2, Automatic Multicast Tunelling (AMT)

Video on Demand (RTSP), Adaptive Bit Rate Video (HLS, HDS, Smooth),

Video conferencing

SECURE VPN
SSL/TLS/DTLS, IPsec (IKE v1/v2), Cisco AnyConnect SSL VPN Client, Cisco AnyConnect IPsec VPN Client, Juniper Pulse, Juniper Network Connect, 802.1x EAP-MD5

SECURITY ATTACK MITIGATION
Spam / Viruses / DDOS

VOICE
VoIP: SIP & RTP (secure & unsecure), H.323, Dual Hosted UACs, SIP Trunking

Voice & Video quality metric (MOS)

LTE/4G
GTP tunnel support

SLA
TWAMP

AUTOMATION
CLI, Perl, TCL, XML, Java API

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Our passion for performance is defined by three attributes represented by the icons pictured above: solution-minded, performance-driven and customer-focused.