

IPv6 Storage Protocol Package

Industry's premiere validation system over IPv6

Overview

The Internet Assigned Numbers Authority (IANA) allocated the last block of IPv4 addresses in February 2011. Since then, IPv6 has been a requirement for new Internet hosts.

The replacement process of IPv4 with IPv6 will be gradual but inevitable, and will force both protocols to coexist for many years. Without preparation and planning, the co-existence requirement can negatively affect network performance and user Quality of Experience (QoE).

Thorough testing is required to assess IPv6 readiness of storage devices and storage infrastructures to objectively characterize its impact on IO performance and storage access security

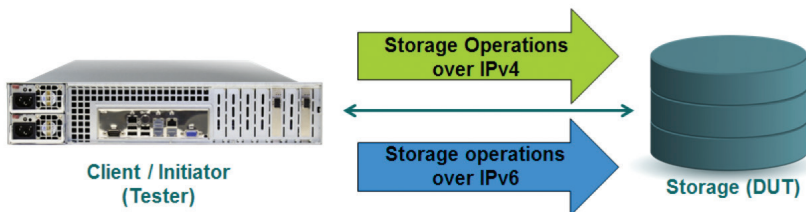


Figure 1: WorkloadWisdom mixed IPv4 and IPv6 storage environment.

Highlights

- The same storage validation solutions from WorkloadWisdom you love, over IPv6
- Contrast and compare storage IO throughput, IOPS and concurrency scalability between IPv4 and IPv6
- Mixed IPv4 and IPv6 loads
- Fragment Headers configuration
- Neighbor Discovery Protocol

Key Features

Protocols	<ul style="list-style-type: none">• File<ul style="list-style-type: none">• Client: SMB, SMB 2.x, SMB 3.x, NFSv2, NFSv3, NFSv4, NFSv4.1• Server: CIFS/SMB, SMB 2.x, NFSv3• Block<ul style="list-style-type: none">• Initiator: iSCSI, Fibre Channel• Target: iSCSI• Object<ul style="list-style-type: none">• Client: HTTP, HTTPS, OpenStack Swift, SNIA CDMI, Amazon S3, OpenStack Cinder• Server: HTTP, HTTPS
Authentication	<ul style="list-style-type: none">• NTLM, Kerberos, CHAP
IPv6 Configuration	<ul style="list-style-type: none">• IPv6 headers, including Fragment Headers• Static IPv6 addressing• Neighbor Discovery Protocol• Single Gateway Static Routing
Network Configuration	<ul style="list-style-type: none">• Millions of simulated IP and MAC addresses• VLAN support• TCP parameters configuration

Supported Platforms

- WorkloadWisdom 1G Series Generators
- WorkloadWisdom 10G Series Generators
- WorkloadWisdom 40G Generator
- WorkloadWisdom Unified Series Generators
- WorkloadWisdom Series Generators
- WorkloadWisdom Virtual Series Generators



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