XPoint

Affordable Load Balancing, High Performance and Feature-Rich

XPoint is the leader in load balancing and application delivery solutions at price points most customers can easily afford. With all-in-one solution from server load balancing to global server load balancing, it can meet the needs of almost any applications.

The AppScaler 2020 is a 1RU redundant-power appliance with 17Gbps throughput that supports all load balancing and application delivery features and provides a cost-effective yet powerful solution for large enterprises.

Hardware Platform Specification

Performance	
Throughput (L4/L7)	17Gbps/15Gbps
SSL TPS (2K Keys)	14,000
Concurrent Connections	32,000,000
Layer 7 HTTP RPS	800,000
Network Interface	
Gigabit Copper	6
Gigabit Fiber	Optional
10GE Fiber	2
25GE Port(SFP28)	0
40GE Port(QSFP+)	0
100GE Port(QSFP28)	0
Hardware Specification	
Processor	Intel Quad Core
Memory (ECC RAM)	32GB
Storage	128GB SSD
ASIC SSL Hardware	Yes
Dimensions(W x D x H)	500mm (W) x 440mm (D) x 50mm (H)
Rack Units (Mountable)	1U
Unit Weight	10 kgs
Power Supply	Single 250W ATX Supply
Heat in BTU/hour	2200
Operating Ranges	Temperature 0° - 40° C	Humidity 10% - 85%

Application Delivery

IPv4/IPv6 support
TCP/UDP Layer 4/7 Server Load Balancing
Loading Balancing Methods
- *Round Robin*
- *Ratio Round Robin*
- *Least Connection*
- *Ratio Least Connection*
- *Predictive*
- *Ratio Response Time*
- *Source IP Hash*
Layer 7 Content Switching
- *URL*
- *URL Token*
- *HTTP Method*
- *HTTP Request Header*
- *HTTP Content*
- *Source IP*
Layer 4/7 Session Persistence
- *HTTP(s) Session*
- *RDP*
- *RDS Session*
- *Source IP*
- *SSL SessionID*
Advanced Health Monitoring
- *ICMP*
- *TCP/UDP*
- *HTTP(s)*
- *SMTP/POP3*
- *DNS/FTP/LDAP/NNTP*
- *and more*
STARTTLS support for Secure Email & LDAP
Virtual Server Group/Member Support

SSL Acceleration

SSL Termination and SSL Bridging Support
TLS(1.0,1.1,1.2,1.3) and SSL(2.0,3.0) Support
SNI Support
TLS/SSL Certificate Chaining
TLS/SSL Intermediate Certificate
ASIC-Based SSL Accelerator
4096-bit SSL Key Support
Hardware Security Module Support

Single Sign-On

Endpoint Pre-Authentication
SSO Profile/Group
Authentication protocols
- *LDAP*
- *Radius*
- *RSA SecurID*
- *Kerberos*
- *NTLM*
Single Sign-On methods
- *Client Initiated HTTP Form*
- *Client Initiated HTTP Form + RS HTTP Basic Auth*
- *Client Initiated HTTP Form + RS HTTP Form*
- *Client Initiated HTTP Form + RS Kerberos*
- *Client HTTP NTLM Auth*
- *Client HTTP NTLM Auth + RS Kerberos*
Two factor authentication
Custom Login and Post Form

Application Security

Web Application Firewall
- *Cross Site Scripting*
- *SQL Injection*
- *Cookie Tampering*
- *Real time block or audit*
- *Up to date WAF rules*
Integrated DDoS protection for application services
Snort Compatible Intrusion Prevention
Kernel Level ACL
IP Anomaly Detection
Connection Limiting

Global Server Load Balancing

Active-Active and Active-Passive Deployment Mode
Intelligent Distribution Methods
- *Round Robin*
- *Static Proximity*
- *Location*
- *Ratio Round Robin*
- *Custom Load*
- *Dynamic Metrics*

Networking

Integrated Layer 2/Layer 3
One-arm, Multi-arm Support
Direct Server Return Support
NAT-Based Forwarding
VLAN Trunking (802.1Q)
Link Aggregation (802.3ad)
VXLAN Support
Full native IPv6 management and feature support
SLB-PT (Protocol Translation),
SLB-64 (IPv4<–>IPv6,IPv6<–>IPv4)
SNAT
Stateful Failover
Dynamic routing (BGP, BFD, OSPFv2/v3, RIP, RHI)

Virtualization

Virtual Appliance for VMware vSphere ESXi, Microsoft Hyper-V and Citrix Xen
Hypervisor acceleration and management integration

Administration

Dedicated on-box management interface (GUI, CLI, SSH,)
Web User Interface
Real time packet capture for analysis and debug
Comprehensive Reports and Logs
Role Based Management