XPoint Network

AppScaler Application Delivery Solutions

Authorized Distributor:



SecureHub Distribution Sdn Bhd (462057-H)

No: 7, Jalan 109E, Desa Business Park, Taman Desa, Jalan Kelang Lama, 58100 Kuala Lumpur Tel: 03-7983 6832 Fax: 03-7983 6687

Email: sales@securehub.com.my



www.securehub.com.my

What does AppScaler do

AppScaler manages your applications, so you can manage your business.

- Guaranteed Zero Downtime for mission-critical business applications
- Application Optimization with purpose-built technologies
- Meet security compliance



AppScaler Advantages

- High performance Software and Hardware Platform
- Simplicity with App Templates
- Application Visibility
- VNF (Virtual Network Function) ready
- Dual IPv4 and IPv6 stack and Automatic Conversion
- Comprehensive Single Sign On
- Open System with Full API
- All-in-One Application Delivery Solutions

High Performance Software and Hardware Platform

- FastPacketModule is AppScaler proprietary Packet Module empowered by Intel DPDK, which is <u>10 times faster</u> than regular Linux Kernel when it comes to packet processing.
- ASIC SSL Acceleration Card: <u>35K TPS (2K key)</u>
- Active-Active clustering can aggregate multiple AppScaler virtual/hardware appliances as one single unit to scale up to <u>600Gbps</u> layer 7 throughput

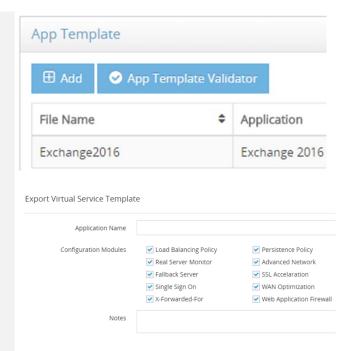
⊞ Add	⊘ Refresh	
ID	Unit IP Address	Status
1	192.168.0.169	Cluster Central Nod
2	192.168.0.150	Node Running
3	192.168.0.151	Node Running
4	192.168.0.152	Node Running

Simplicity with App Templates

Load balancing is complicated by nature because of the complexity of business applications, no matter load balancing is managed with CLIs, scripts or GUI.

AppScaler provides the configuration abstraction layer between business application and load balancer with App Template.

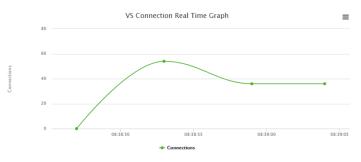
- XML format makes it easily import and export
- Ready-to-use AppTemplates like MS Exchange
- Build the load balancing in one click
- Flexibility of developing Custom AppTemplates for advanced users



Application Visibility

- Application visibility is an critical component to monitor and diagnose the performance of the business applications.
- AppScaler gathers real time and historical statistics including connections, bandwidth, hits, application RTT (Round Trip Time), client latency and server processing latency to provide <u>end-to-end visibility</u> <u>across all the business applications</u>.

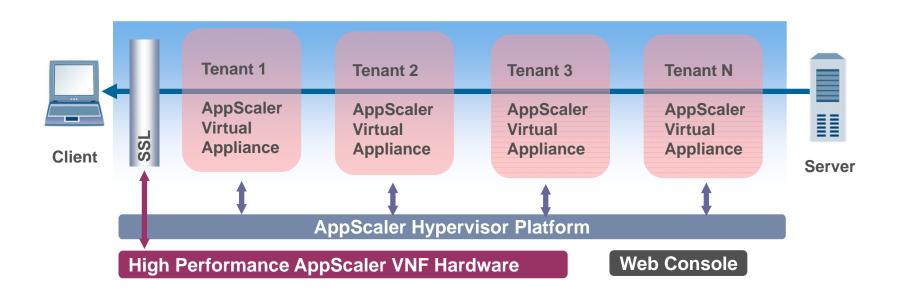




VS Metrics (History)			
Total Connections	40	dil	
Total Bandwidth	563.34KB	hil	
Total Hits	1094		
Total RTT	0ms		
Total Client Latency	67ms		
Total Server Processing	28ms		

Multi Tenant Virtual Network Function

- Provision and manage AppScaler as Virtual Function centrally
- Multi-tenancy to improve operational efficiency and service agility as well as lowering total costs
- Support up to 64 isolated AppScaler instances on one single unit



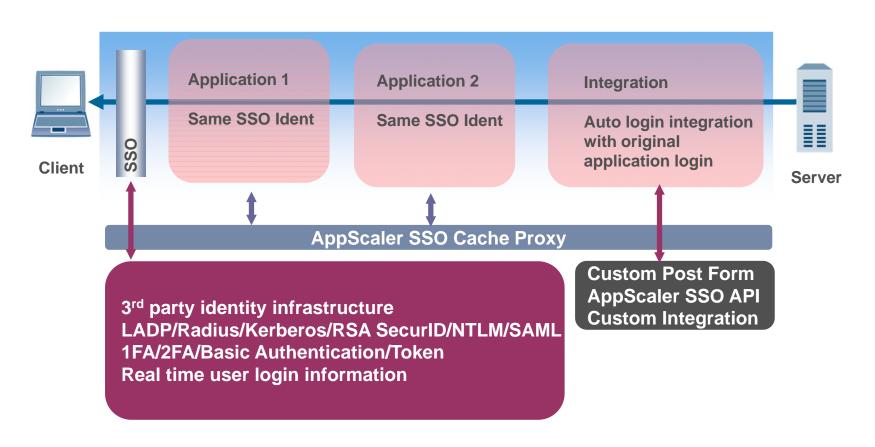
Dual IPv4 and IPv6 Stack

- Full support on Dual IPv4 and IPv6 Stack
- Automatic IPv4/IPv6 conversion makes IPv6 migration much easier
- Client(IPv4)->VS(IPv4)->RS(IPv4)
- Client(IPv6)->VS(IPv6)->RS(IPv6)
- Client(IPv4)->VS(IPv4)->RS(IPv6)
- Client(IPv6)->VS(IPv6)->RS(IPv4)
- Response rewrite to fix external links in IPv4 website



Comprehensive Single Sign On (1)

 AppScaler provides centralized and flexible application access authentication to consolidate identity access management infrastructure and realize enhanced security at a reduced operational cost.



Comprehensive Single Sign On (2)

Typical SSO Workflow:

- User accessing the SSO enabled virtual service on AppScaler
- AppScaler launching Pre-authentication Login Form (Either 1FA or 2FA)
- User inputting the credential in Login Form
- AppScaler passing credential to be authenticated with 3rd identify system
- If authenticated, user can access this virtual service
- The same user with the same connection can access all the SSO enabled virtual services with the SAME SSO Profile in Access Policy

Comprehensive Single Sign On (3)

Integration with applications for automatic login:

- All the applications have its own set of login mechanism
- AppScaler provides pre-authentication but without the integration with application the re-login of applications required.
- AppScaler provides 3 toolsets/services for integration purpose to achieve automatic login with applications
- 1. AppScaler capturing credential in login form and post to the applications by custom and flexible POST form
- 2. AppScaler providing SSO API for applications to retrieve the user login information
- 3. AppScaler providing custom integration service with application on SSO

Open System with Full API

AppScaler provides comprehensive APIs for automation and orchestration, which makes software development team stage, deploy and update business application quickly and safely without the concern of disrupting ongoing business processes.

- HTTP(s) based
- XML and Json support in runtime
- 370+ APIs

```
API User
API User
 Add
 API User
              Token
                 043e1781572deacd5e62c268e16844b371b887fa
 "vs": {
          "id": "2",
          "vsname": "VS008",
          "vstype": "1",
          "vslayer": "7",
          "apptype": "http",
          "ip address": "192.168.0.222",
          "port": "80",
          "forward": "1",
          "notes": "",
          "enabled": "y",
          "stats": "n",
          "status": "Up'
  "state": 200,
 "code": "ok"
```

All-in-One Application Delivery Solutions

Turnkey Application Delivery Solution:

- Server Load Balancing
- Global Server Load Balancing
- SSL Offloading
- Single Sign On
- Web Application Firewall
- Hardware Security Module
- Active-Active Clustering