



KEMP Condor - Multi-Tenant Load Balancing und Sicherheitsfunktionen aus einer Hand!

InfoNet Day 2014

smart outcome GmbH, Effretikon

Agenda

- KEMP Ansprechpartner Schweiz
- KEMP Condor - Multi-Tenant Load Balancing
- Application Firewall Pack Overview

KEMP Ansprechpartner Schweiz

- KEMP Technologies gegründet 2000 in New York

- KEMP & smart outcome GmbH
 - KEMP Vertrieb Schweiz seit 2005
 - KEMP Kompetenzzentrum Schweiz seit 2009
 - KEMP Distributor Schweiz seit 2012

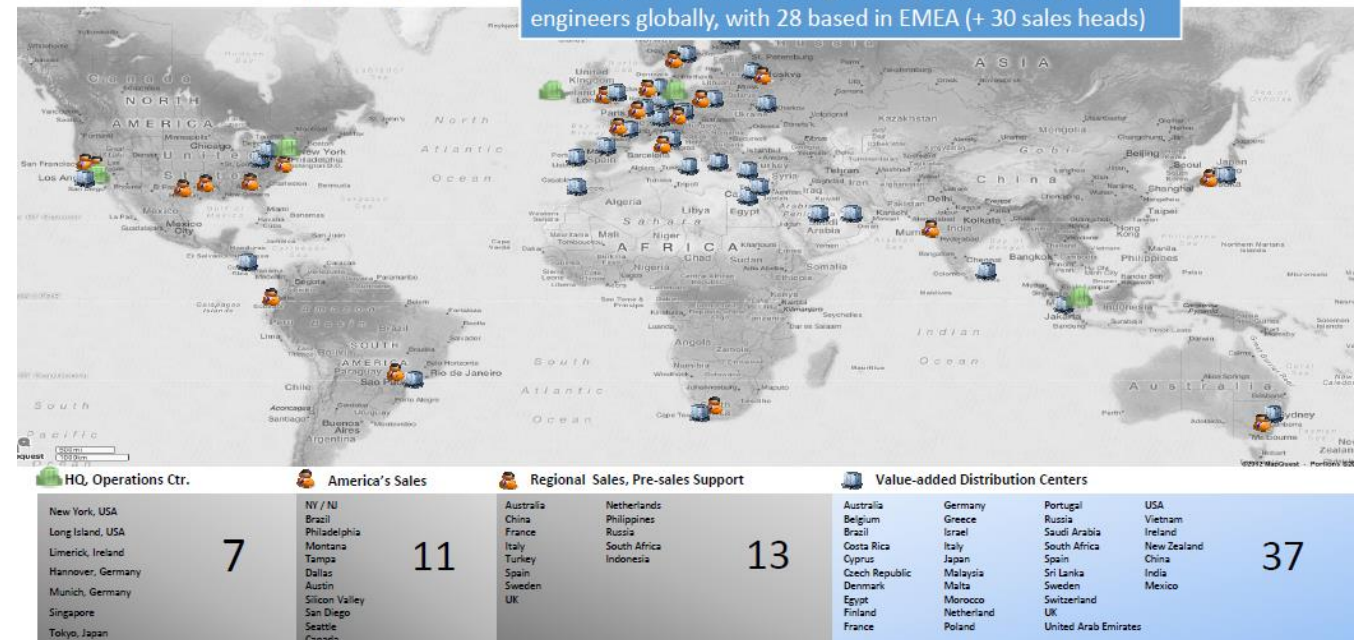
- **News:** Neuer KEMP EMEA Standort:

- KEMP Technologies Schweiz
- RMA Lager in der Schweiz

- Ansprechpartner

- Kontakt für Partner, Vertrieb und Pre-Sales Schweiz
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- Telefon +41 445520650

KEMP World Wide – April 2014





KEMP Condor - Multi-Tenant Load Balancing

Condor Overview

What Is It?

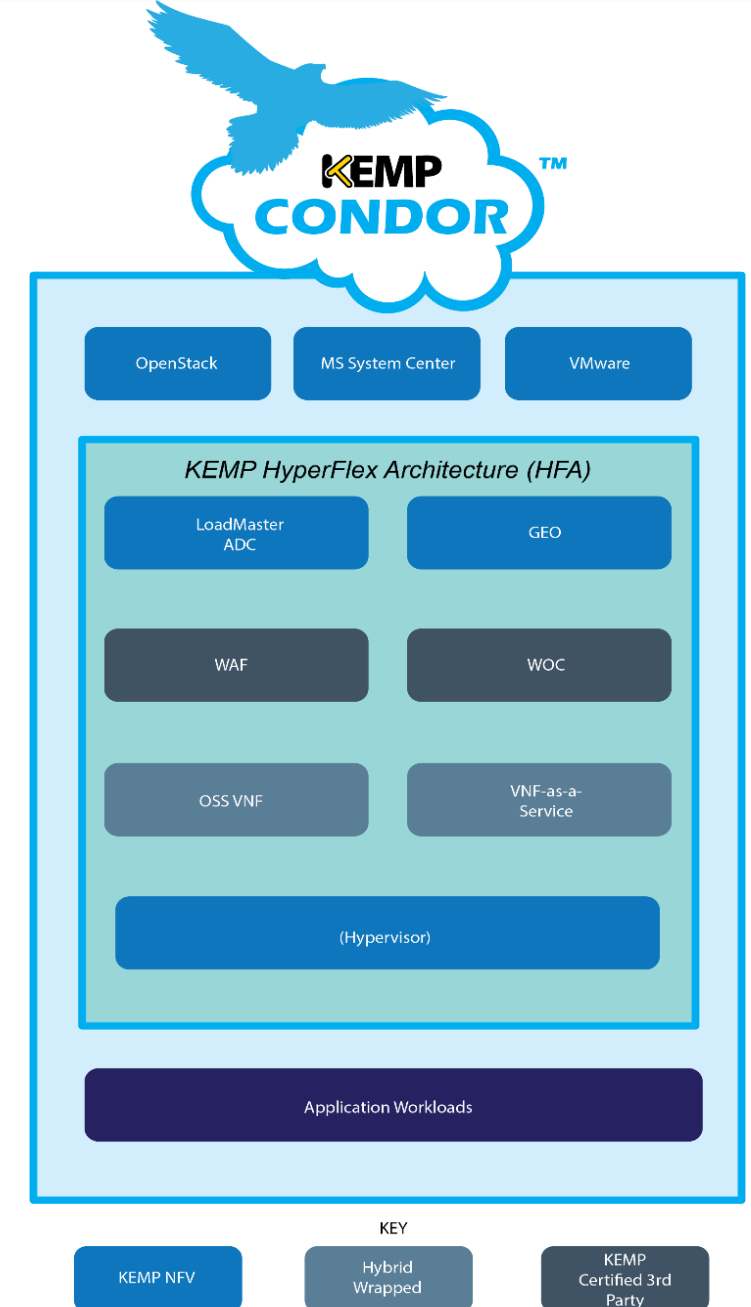
KEMP's multi tenant application delivery framework

What Does it Do?

Enables customers (both enterprises and service providers) to provide multi tenant app delivery (load balancing, GSLB, etc.)

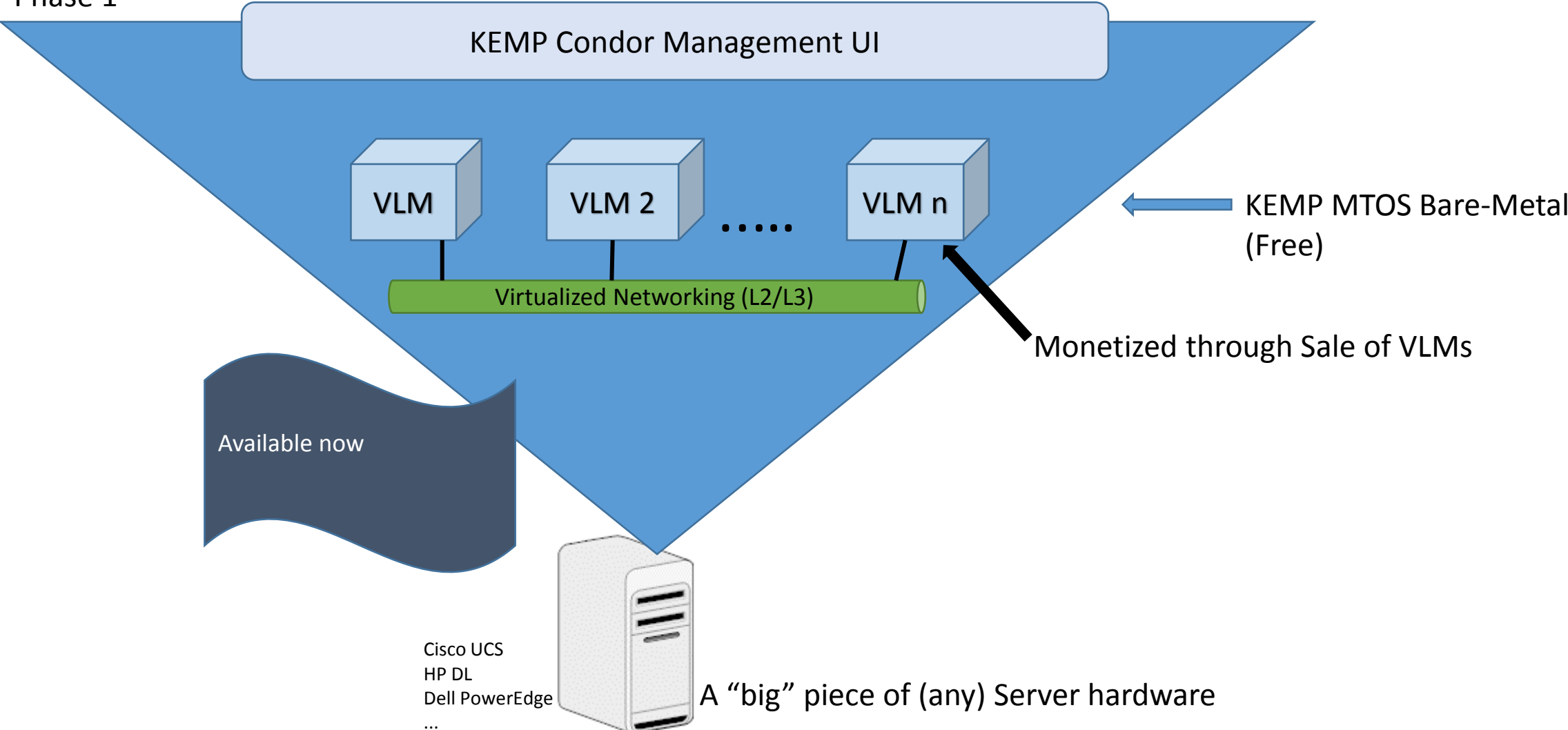
Supports both KEMP and 3rd party virtualized network functions (e.g. VLM)

Makes NFV service chaining technology more accessible to managed service providers and enterprise customers and customer with a complex network Environment



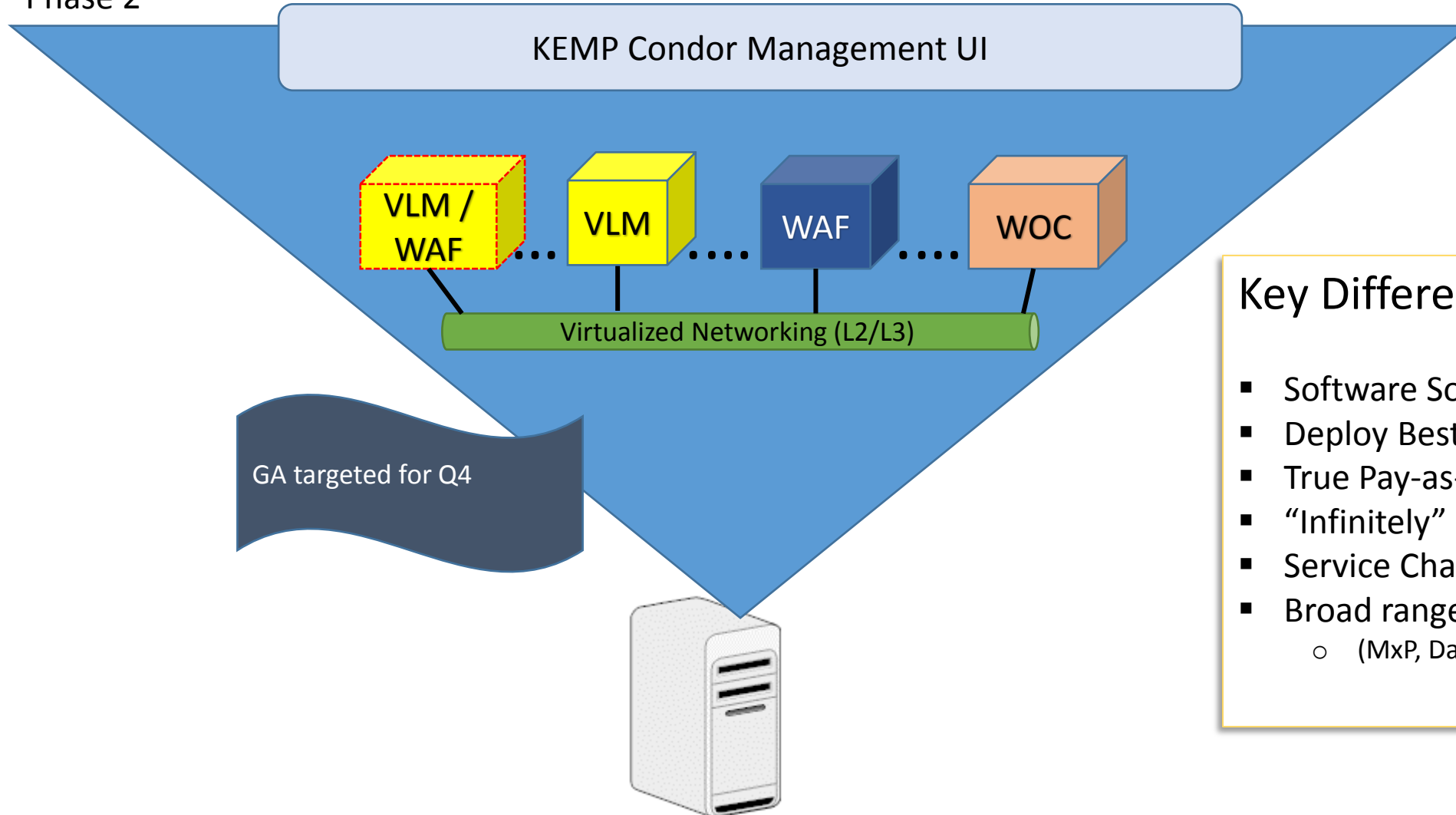
Condor platform, supporting KEMP VLMs only

Phase 1



Complete multi-vendor ecosystem, supporting KEMP and 3rd party VNFs.

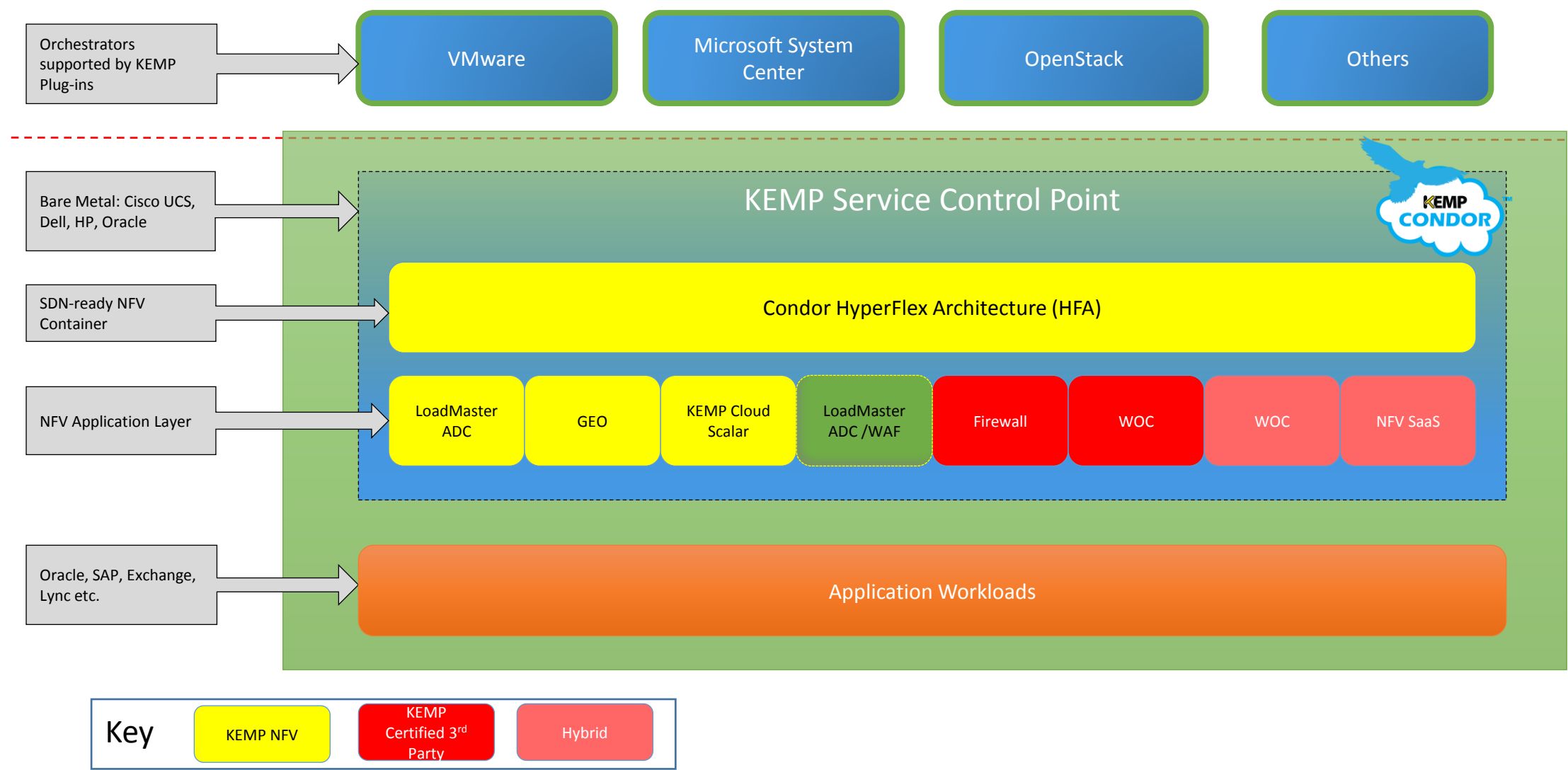
Phase 2



Key Differentiators

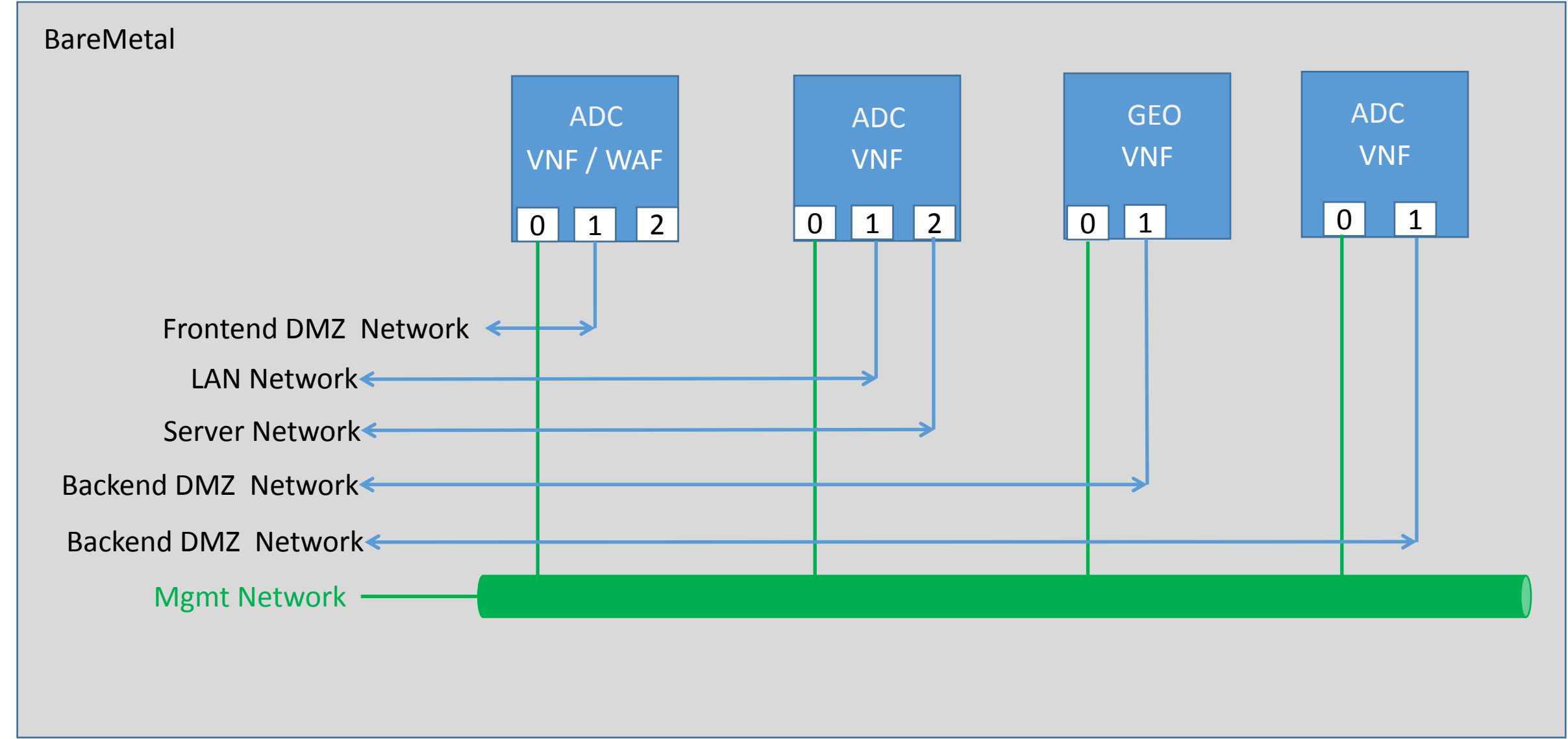
- Software Solution vs Proprietary H/W
- Deploy Best-of-Breed NFVs
- True Pay-as-you-Grow
- “Infinitely” Scalable
- Service Chaining Pre-built
- Broad range of target markets
 - (MxP, Data Center, SME, Enterprise)

KEMP Application-on-Demand Delivery Framework

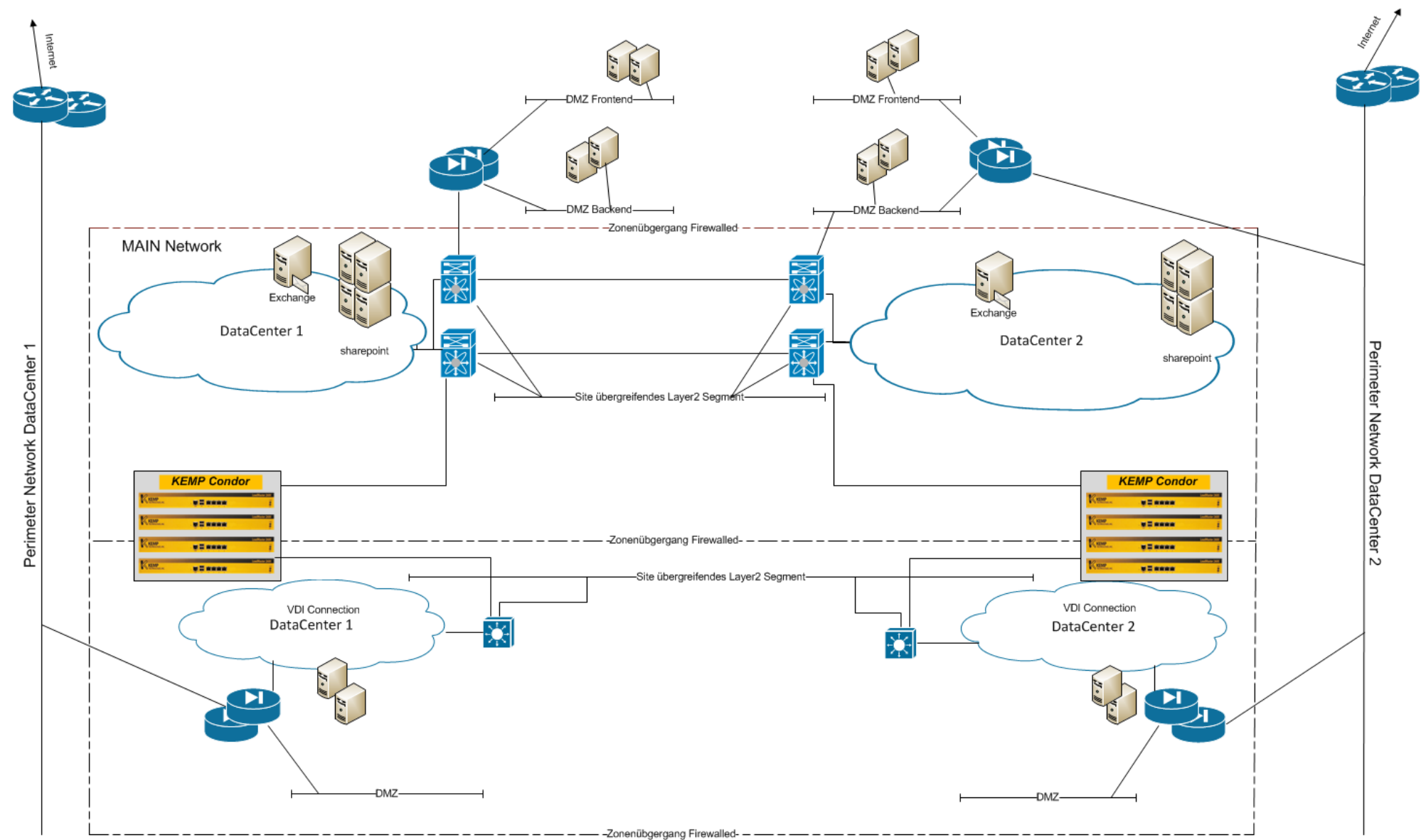


Network Architecture

BareMetal



Condor Network Architecture Practice



Live Demo

Condor WUI

Main Menu (bal)

02:50:56 PM

Condor Manager Vitals

Vers:1.1-16

Home

Instance Management

VNF Statistics

Package Management

Manage Templates

Statistics

System Configuration

Interfaces

eth0

Local DNS Configuration

Route Management

Access Control

System Administration

Logging Options

Miscellaneous Options

IP address	192.168.10.180
Serial Number	CZC1393MKM
Boot Time	Fri Oct 17 18:23:49 UTC 2014
Condor Manager Version	1.1-16
License	UUID: 9c338590-5c9c-40a2-8f87-bcdd46d46305 Activation date: Fri Oct 17 16:14:33 UTC 2014 Licensed until: November 17 2014 Support Level: Evaluation Support Until: Sat Oct 17 04:00:00 UTC 2015 License Type: Condor-10 License Status: MT Temp Appliance Model: Condor-10
CPU Load	0%
NetLoad	Mbits/sec
eth0	0.0

VNF Load Balancer

Id	Name	Status	IP Address	Action			
				Start	No AutoStart	Configure	VNF Management
vnf2	LB-DMZ	idle	192.168.10.181			Configure	VNF Management
						Delete	
vnf3	LB-OFFICE-LAN	idle	192.168.10.182			Configure	VNF Management
						Delete	
vnf4	LB-RE-PROXY-DMZ	idle	192.168.10.183			Configure	VNF Management
						Delete	

KEMP LMB-10G which offers 10Gbps and 20k SSL TPS

Fujitsu Primergy RX200 S8 8C/16T with min. 32GB RAM, 4 x 10Gbit NIC and min. 64 GB SSD-HDD

Server Parts:

- 1U Rack server RX 200S8
- 2x Intel Xeon processor E5-2650v2 (8C/16T, 2.60 Ghz, TLC 20MB, Turbo: Yes, 8.0 GT/s, Mem bus: 1,866 Mhz, 95W)
- 2x 16 GB (1 module(s) 16 GB) DDR3, registered, ECC, 1,866 MHz, PC3-14900, DIMM, dual rank
- 2x Ethernet Ctrl. 2 x 10 Gbit/s PCIe 2.1 x8 (Intel®)
- 1x SSD SATA, 6 Gb/s, 100 GB, Mainstream Endurance, hot-plug, 2.5-inch, enterprise



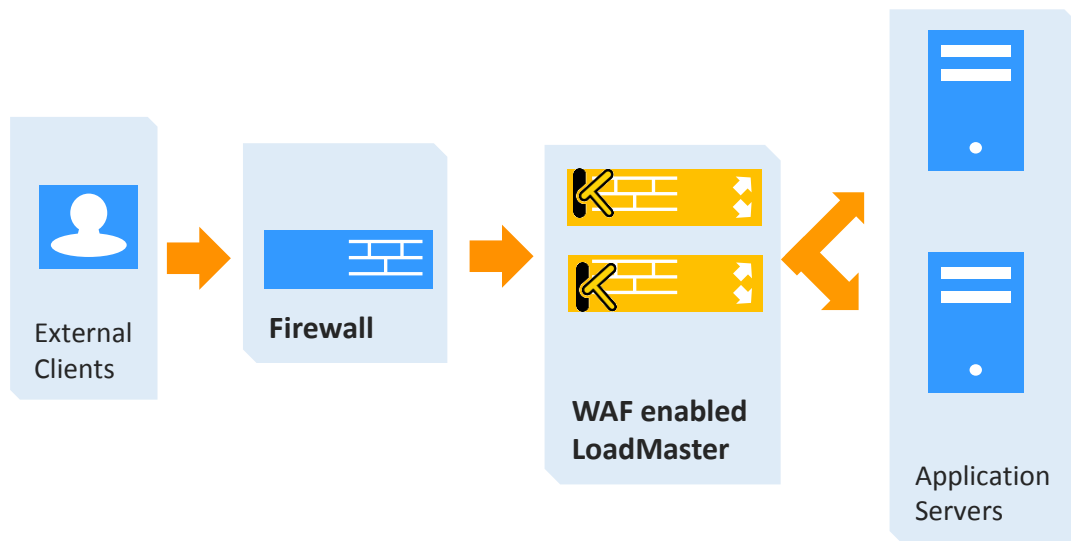
Application Firewall Pack Overview

WAF Enabled LoadMaster

Benefits of Web Application Firewall (WAF)

- Process web-based traffic i.e. HTTP/HTTPS
- Able to detect modern application attacks
- Works in conjunction with existing security technologies to provide complete application attack prevention
- Satisfies PCI DSS compliance requirements
- Supports a multi-layer approach to security

KEMP Application Firewall Pack



Highlights

Integrated WAF functionality and security services

Application security with minimum network impact and maximum application security

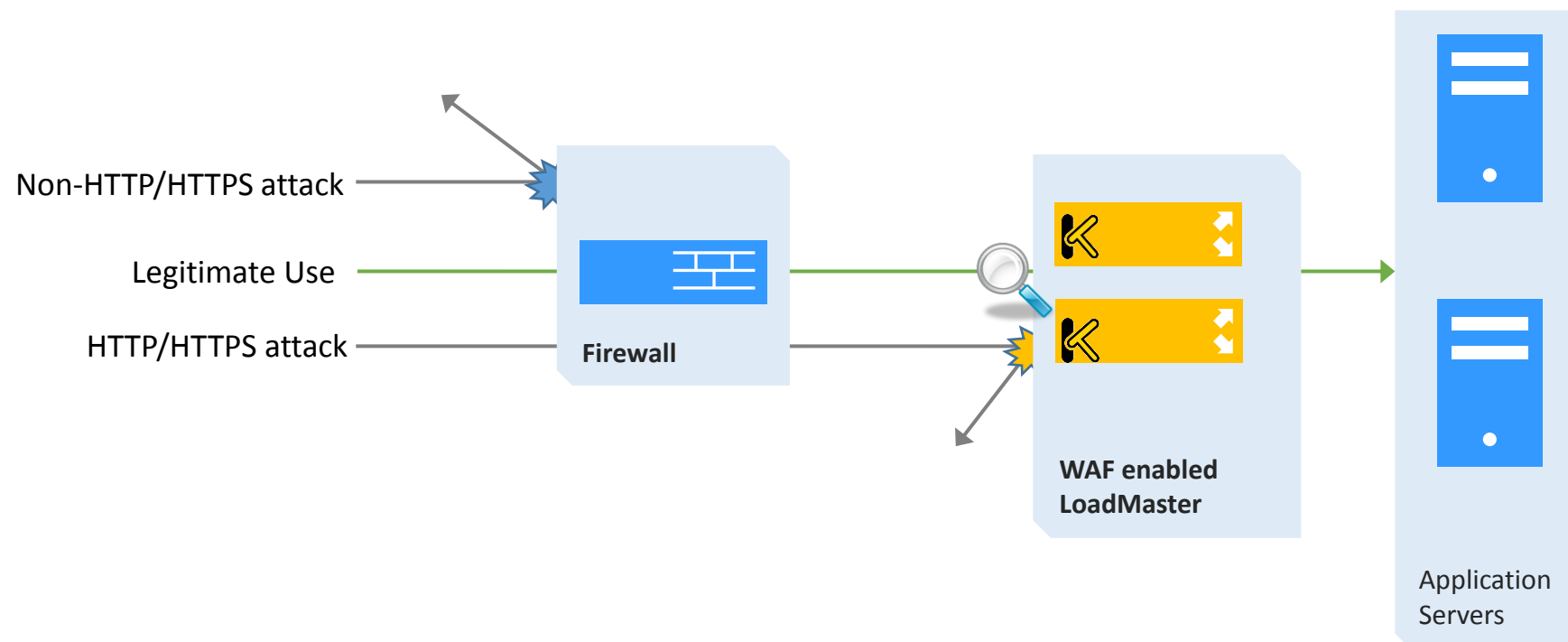
Infrastructure simplification through consolidation of web application security with other application delivery mechanisms such as SSL overlay

Policy support for packaged and custom applications

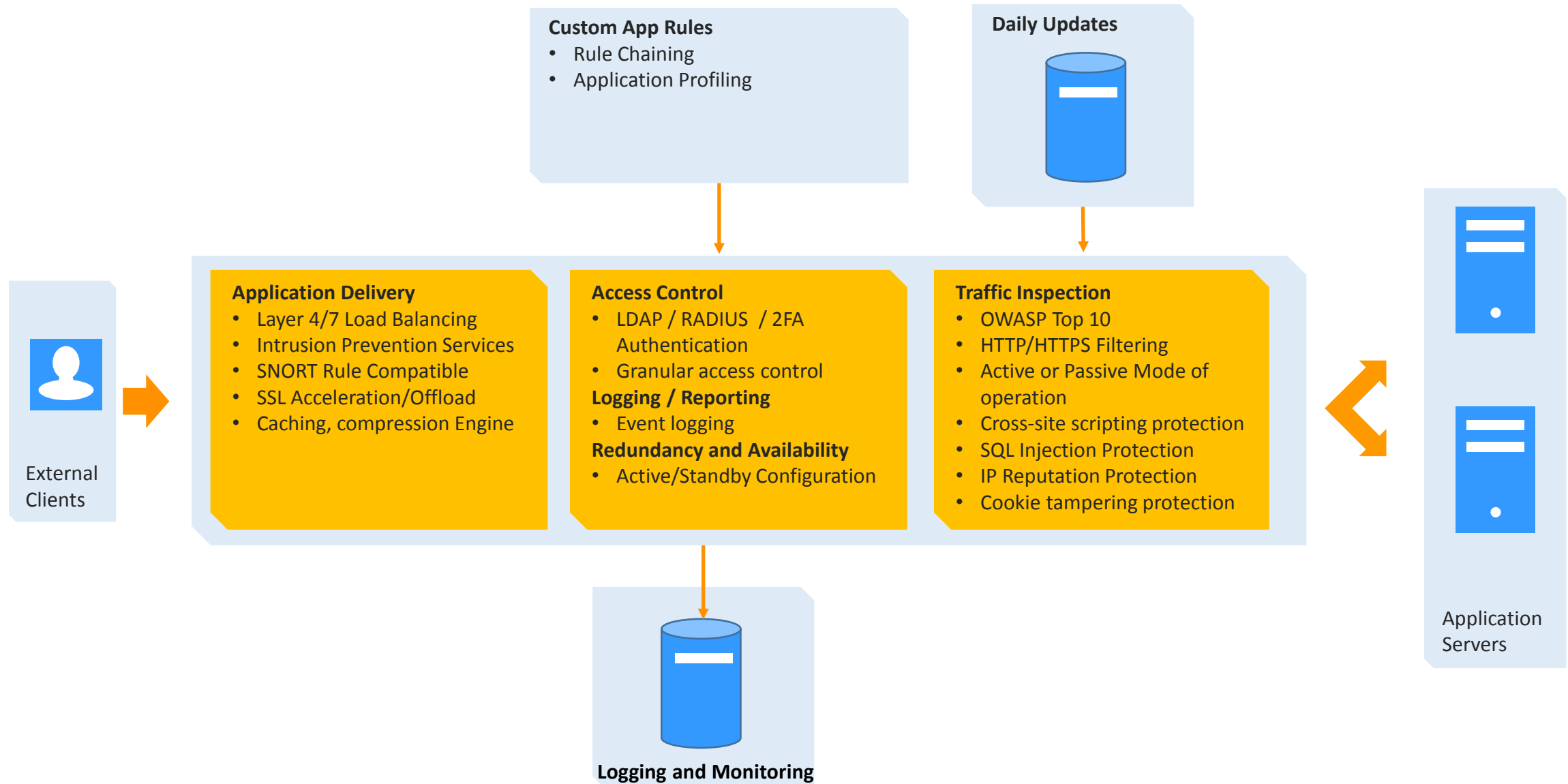
PCI DSS 6.6 satisfaction

Real-time coverage for all published application threats including the OWASP to ten

Firewall and WAF Working Together



KEMP AFP Service Workflow



KEMP AFP Feature Summary

Fully featured load balancing and content switching

IPS and Content Filtering

Protection against OWASP Top Ten vulnerabilities

Support for Standard and Custom Applications

Active (block and log) mode operation support

Passive (log only) mode operation support

SQL injection Protection

Cross-Site Scripting Mitigation

CSRF Prevention

Cookie or form tampering Prevention

DDOS Mitigation

Trojan Protection

IP Reputation checking

Daily rules updates

Data leakage protection

Built in Reporting

Built in logging including log field masking (i.e. credit card numbers)

Questions



Questions?

Appendix

Beta begins Oktober 17th 2014

Sign up at <http://kemptechnologies.com/solutions/waf>

Commercially available from November 2014

For more information visit <http://kemptechnologies.com/news/load-balancers-native-web-application-firewall-integration-announced-kemp-technologies>

To sign up as a beta customer visit <http://kemptechnologies.com/solutions/waf>

Appendix - Condor Keynotes

No upfront costs for expensive hardware - Condor is installed bare metal on HP, Cisco, Fujitsu, Dell.

Supports requirement for multi tenancy – Large and Enterprises and service providers alike have requirements for delivering multi tenant services to their clients. Condor allows for existing hardware investment to be leveraged as part of solution.

Real tenant isolation - Condor allows for full tenant isolation by providing it's own internal virtualization layer, therefore preventing impacts from one tenant spilling over to others

Support for a best of breed strategy – With support being extended for 3rd party virtualized network functions, Condor allows customers to adopt a best of breed application delivery strategy while providing a single pain of glass for management and deployment

Appendix - KEMP AFP Feature Summary

Fully featured load balancing and content switching

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