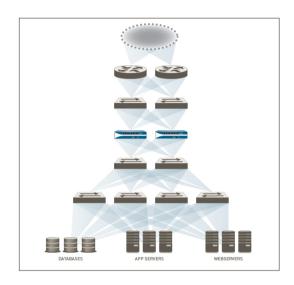
Securing the Virtualized Data Center With Next-Generation Firewalls

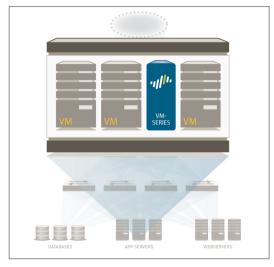
Stallion Otepää Seminar

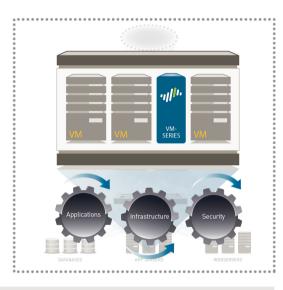




Data Center Evolution







Traditional Data Center

- Dedicated application servers
- Server utilization=15%
- North-South traffic

Virtualized Data Center

- Multiple apps per server
- Higher operational efficiencies
- Improved server utilization

Cloud (Private/Public)

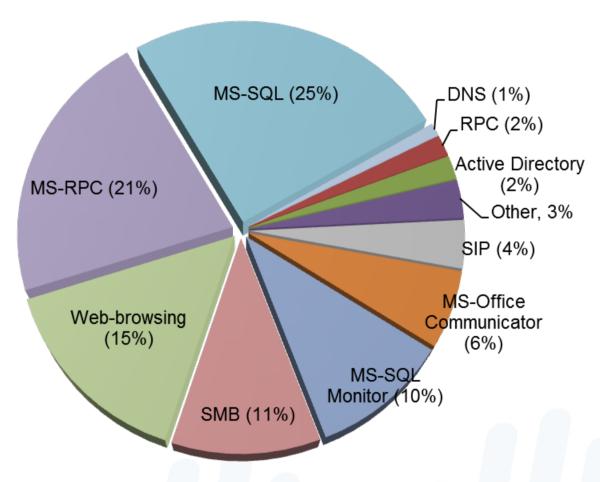
- IT as a "service"
- On-demand services
- Automation and orchestration

Dynamic, automated, "services-oriented"



Exploits Target High Value Assets

- 10 out of 1,395 applications
- 2,016 unique exploits and ~60M exploit logs observed
- 9 business critical applications account for 82% of the threat logs



Source: Palo Alto Networks, Application Usage and Risk Report. Jan. 2013.



Security Hasn't Kept Up with Rate Of Change

Configuration of security policies are manual and slow

- Weeks to provision security policies versus minutes for workloads
- Security policies require manual and repetitive steps

Policies do not follow VM adds, moves, changes

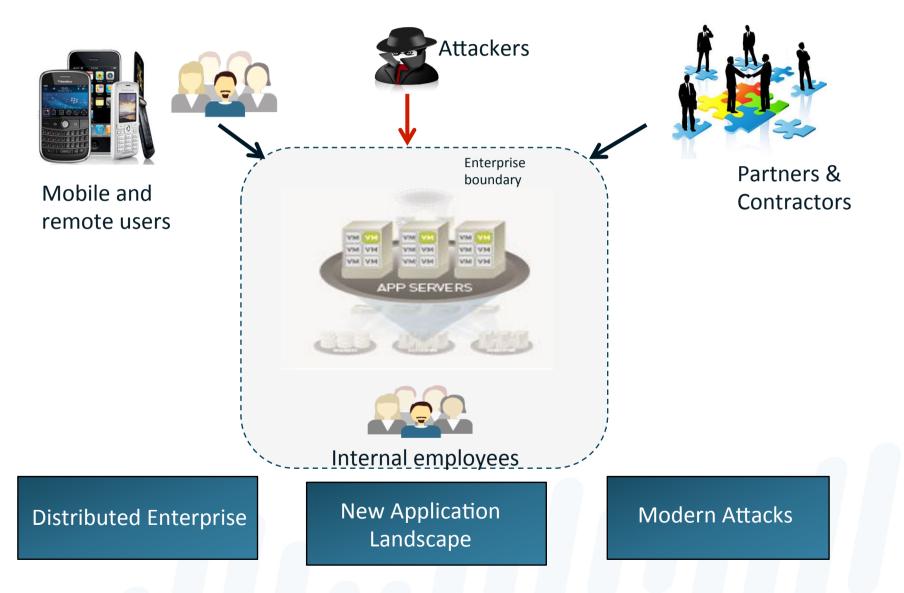
- Policies are not tied to VM instantiation.
- Policies cannot track VM movement (server or data center)

Lack of visibility into the virtual infrastructure

- Segmentation of virtualized apps of different trust levels
- Virtualized traffic may not flow outside of virtualized server (Sharepoint application communicating with SQL database)



But Your Existing Challenges Didn't Go Away



A New Paradigm for Security is Needed

Deliver all the features that are table stakes:

- Safe app enablement, threat protection, flexible integration

Must become more dynamic

- Security policy must be there when VM is created
- Security policy must follow VM movement
- Security workflows must be automated//orchestrated so it doesn't slow down the data center

Consistent, centralized management

- Centralized management is critical
- Must be consistent for all environments physical, hybrid, mixed



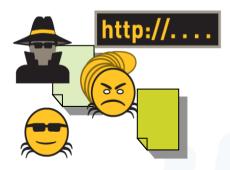
Enabling Applications, Users and Content



 Applications: Safe enablement begins with application classification by App-ID.



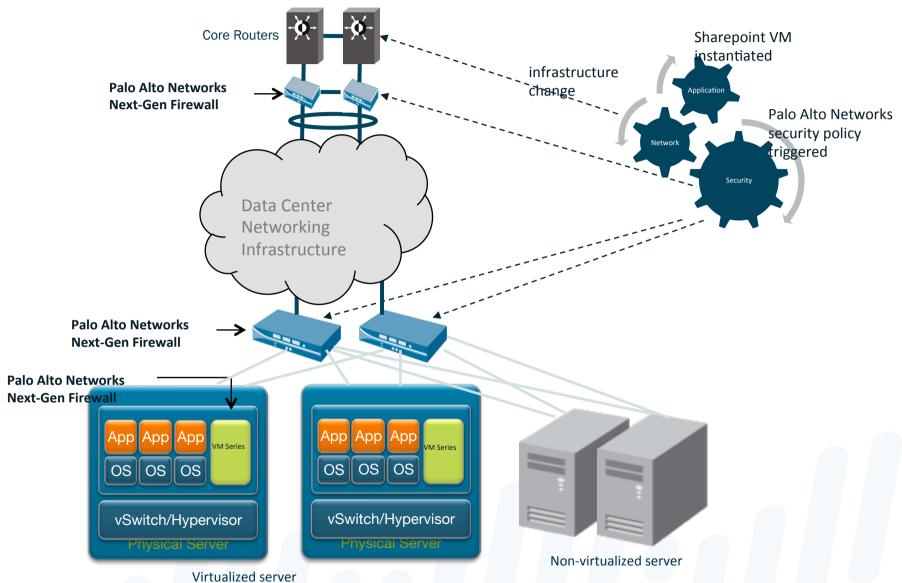
 Users: Tying users and devices, regardless of location, to applications with User-ID and GlobalProtect.



 Content: Scanning content and protecting against all threats – both known and unknown; with Content-ID and WildFire.



Virtualized Data Center and Cloud Deployments



Introducing the VM-Series Safe Application Enablement of Intra-Host Traffic



VM-100	VM-200	VM-300
50,000 sessions	100,000 sessions	250,000 sessions
250 rules	2,000 rules	5,000 rules
10 security zones	20 security zones	40 security zones

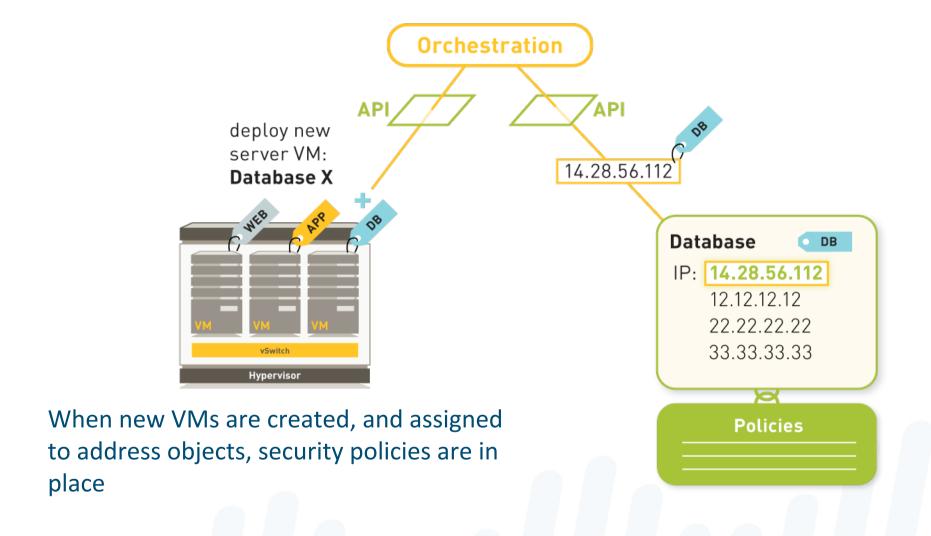
Next-generation firewall in a virtual form factor

Consistent features as hardware-based next-generation firewall Inspects and safely enables intra-host communications (East-West traffic)

Tracks VM creation and movement with dynamic address objects
Initial support on VMware platform - ESXi 4.1 and ESXi 5.0
Available in 3 models (VM-100, VM-200, VM-300), and supports 2, 4, 8 CPU cores
Licensing by firewall capacity – Individual, Enterprise, Service-Provider

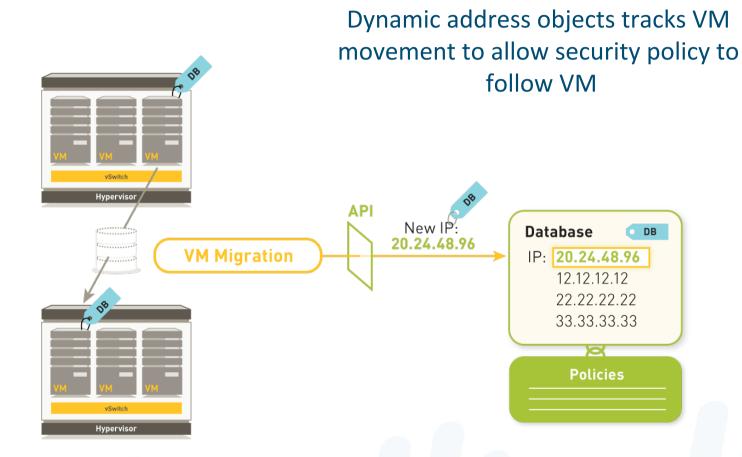


VM orchestration



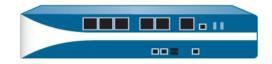


VM Migration



Automation and Orchestration via REST API





Application/service/tenant

- Instantiation
- Provisioning
- Deprovisioning

Service state tracking Policy Mapping



Automated Compliance



Securing The Next-Gen Data Center Requires a Next-Generation Firewall

- Next-generation network security
 - Safely enables all applications in the datacenter
 - Protects against all datacenter threats without performance impact
 - Provides simplified integration into the infrastructure
 - Ties security policies to VM creation and movement
 - Security policies orchestrated in line with virtualized workloads
- Consistent management for virtualized or physical firewalls



Making Everything Easier!"

Network Security in Virtualized Data Centers

DUMMIES

Learn to:

- Securely enable applications in your virtualized data center
- Ensure hypervisor integrity and control migrations
- Implement a phased approach to data center security

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Questions





the network security company