



Nevrijeme u oblacima i kako se zaštititi

Goran Peteh

Enterprise Systems Engineer

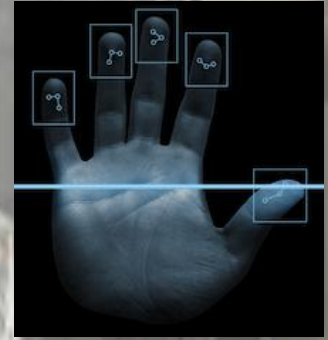
Zagreb, 01.12.2011.





Agenda

- Internet trends – MorganStanley
- Identity-aware infrastructure
- Physical and virtual security

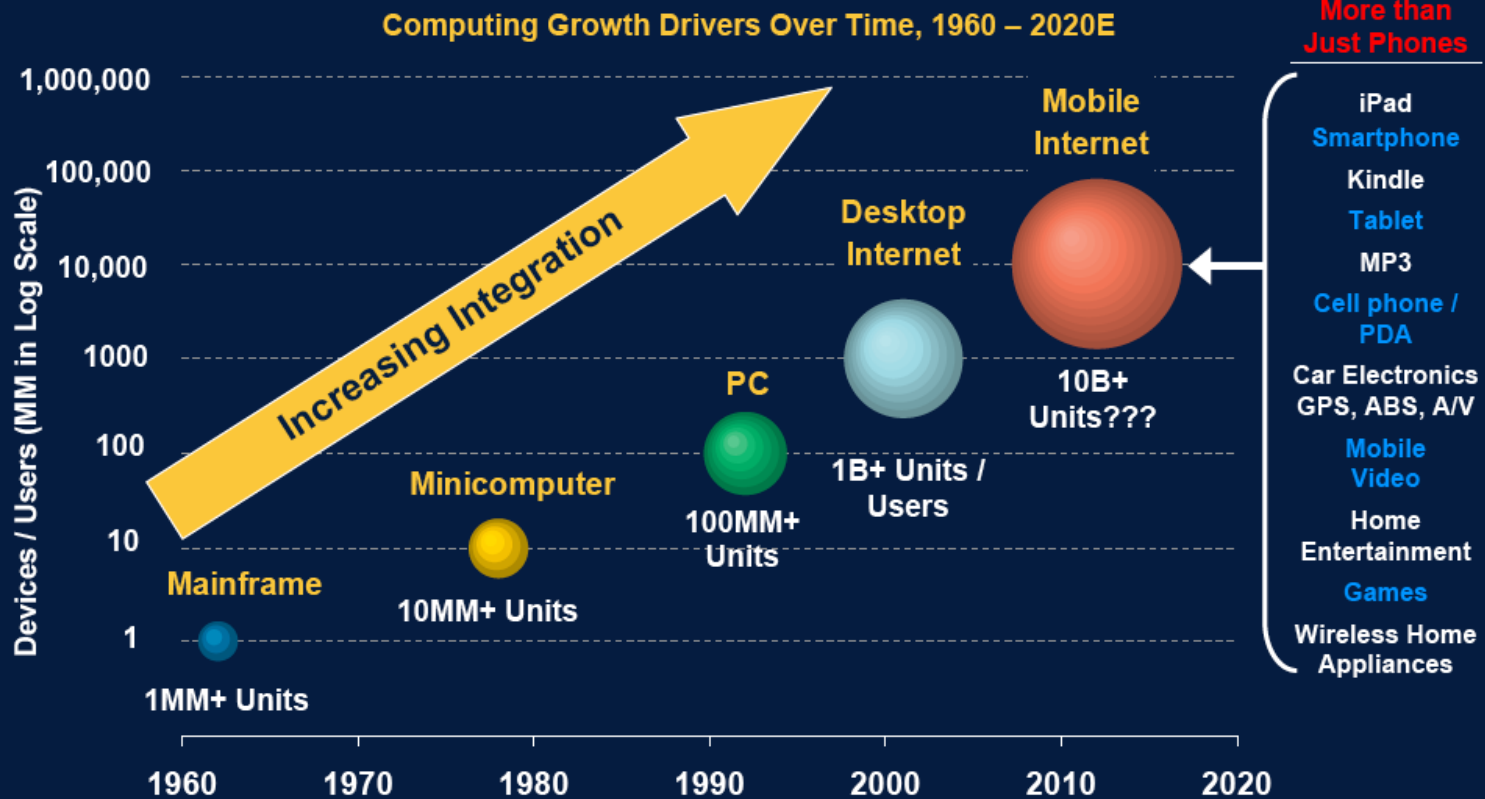


Cumulus



New Computing Cycles – 10x More Devices

New = Reduce Usage Friction Via Better Processing Power + Improved User Interface + Smaller Form Factor + Lower Prices + Expanded Services



Morgan Stanley

Note: PC installed base reached 100MM in 1993, cellphone / Internet users reached 1B in 2002 / 2005 respectively;
Source: ITU, Mark Lipacis, Morgan Stanley Research.

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Altocumulus



Identity-aware infrastructure – ISE, Trustsec



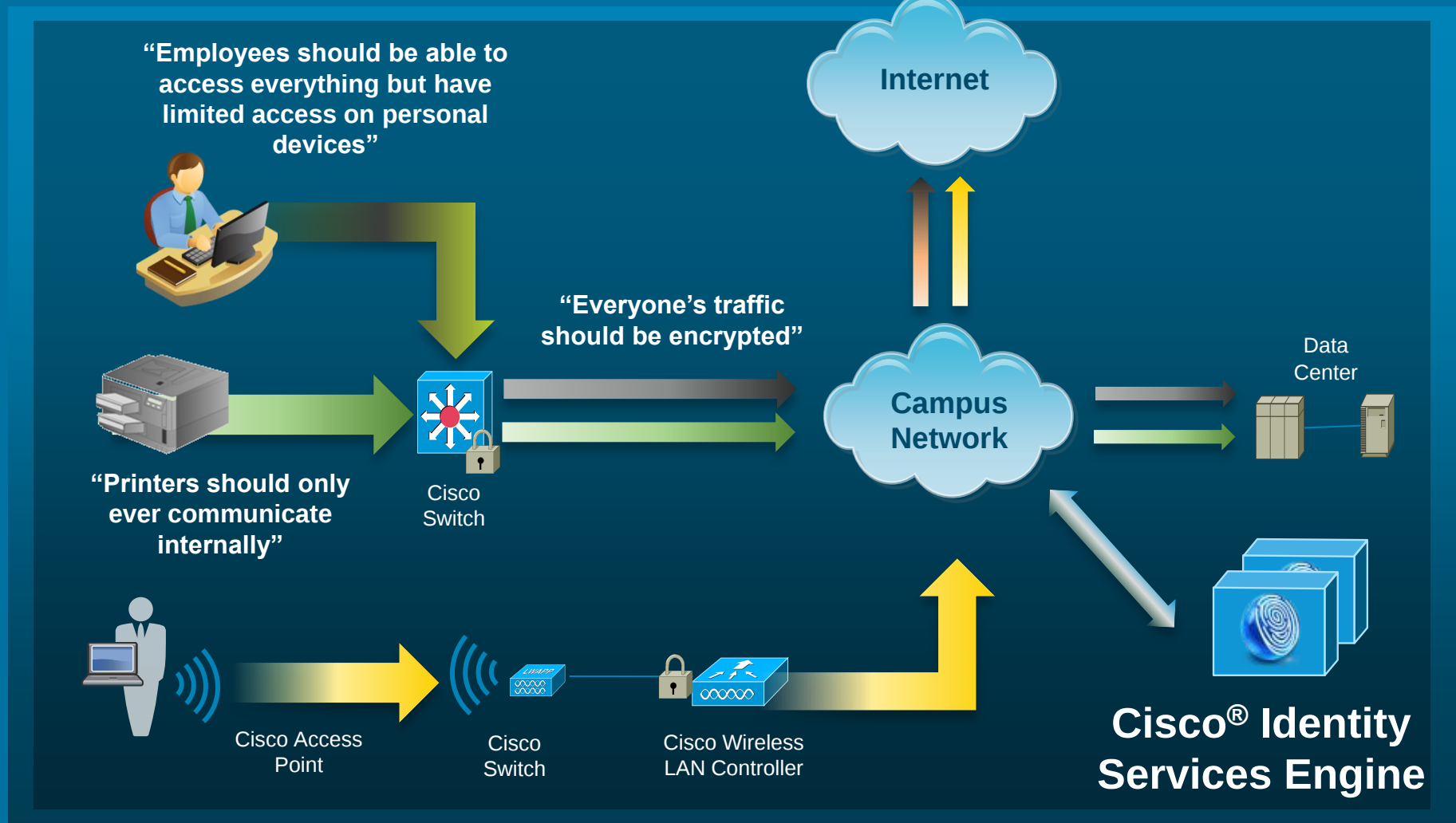
Cirrocumulus

Wireless ... Remote ... Wired ... Virtual ...



Cirrus

ISE – Identity Services Engine



Physical, Virtual, Cloud: End-to-End Security

PHYSICAL

PHYSICAL APPLIANCES AND MODULES

Multi-scale™ data center-class ASA devices



**Cisco ASA
5585-x**



**ASA SM for
Catalyst 6500**

- Scalable in-line performance
- Data center edge security policies
- Flexible deployment options

VIRTUAL & CLOUD

CLOUD FIREWALL

Enhanced cloud security



**Cisco Virtual
Security Gateway
(VSG)**

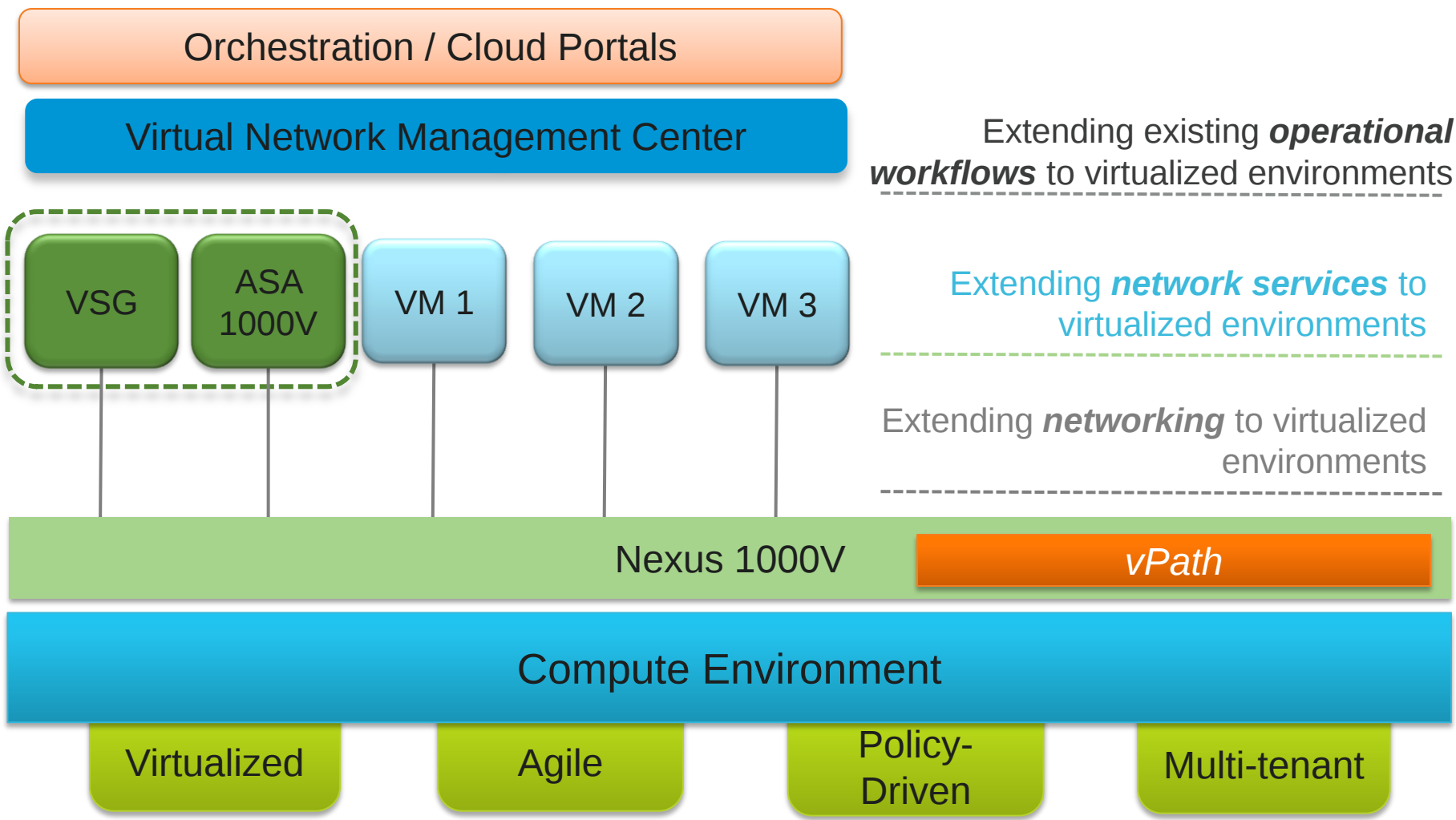


Cisco ASA 1000V

- Proven firewall to secure your cloud
- Tenant-edge to VM-specific policies
- Automated, policy-based provisioning



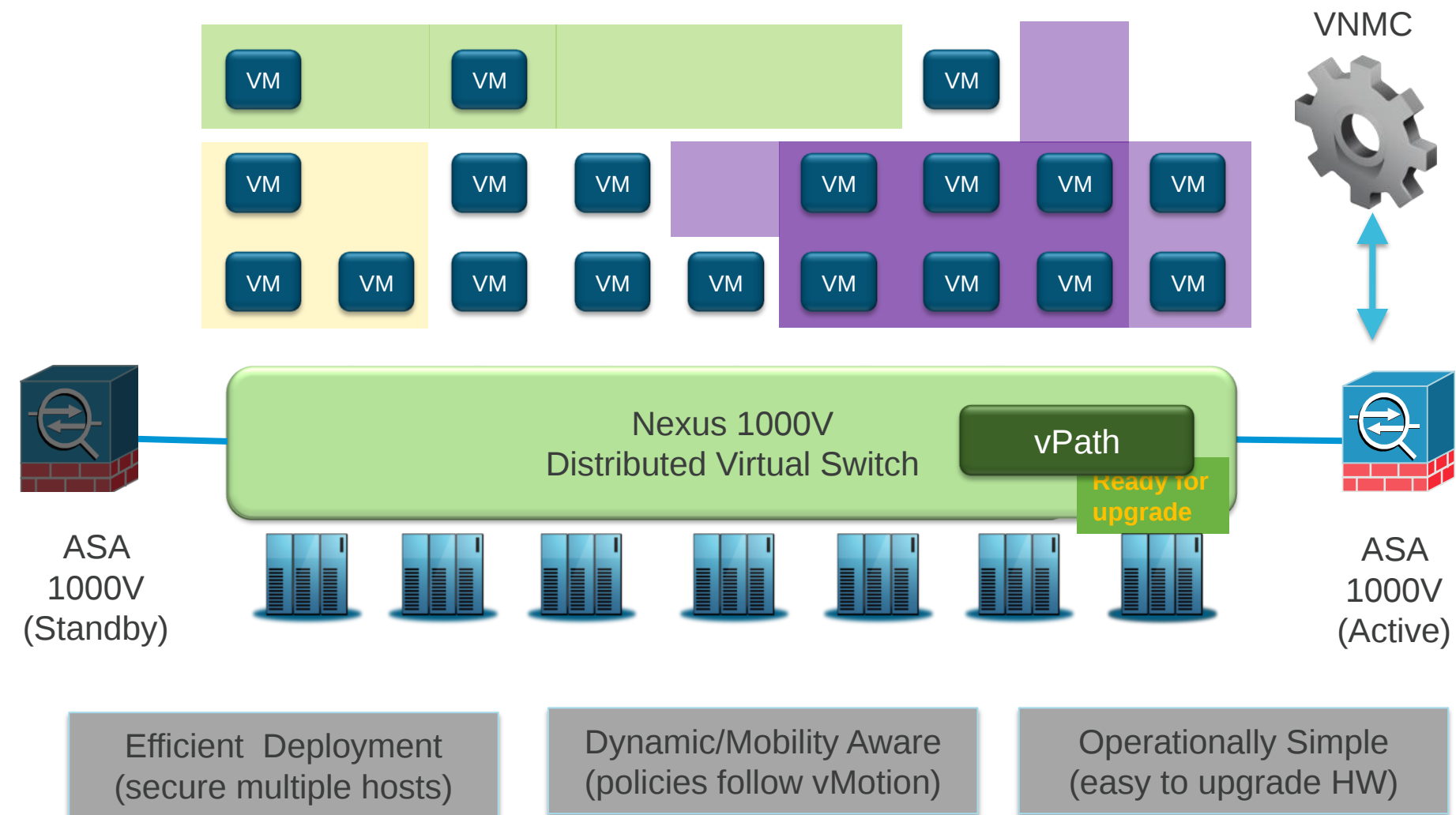
Cisco's Virtual Security Architecture



Cumulonimbus



vPath: Enhanced Flexibility & Operational Efficiency



Altocumulus translucidus

Delivery of Cisco Virtual Security Gateway

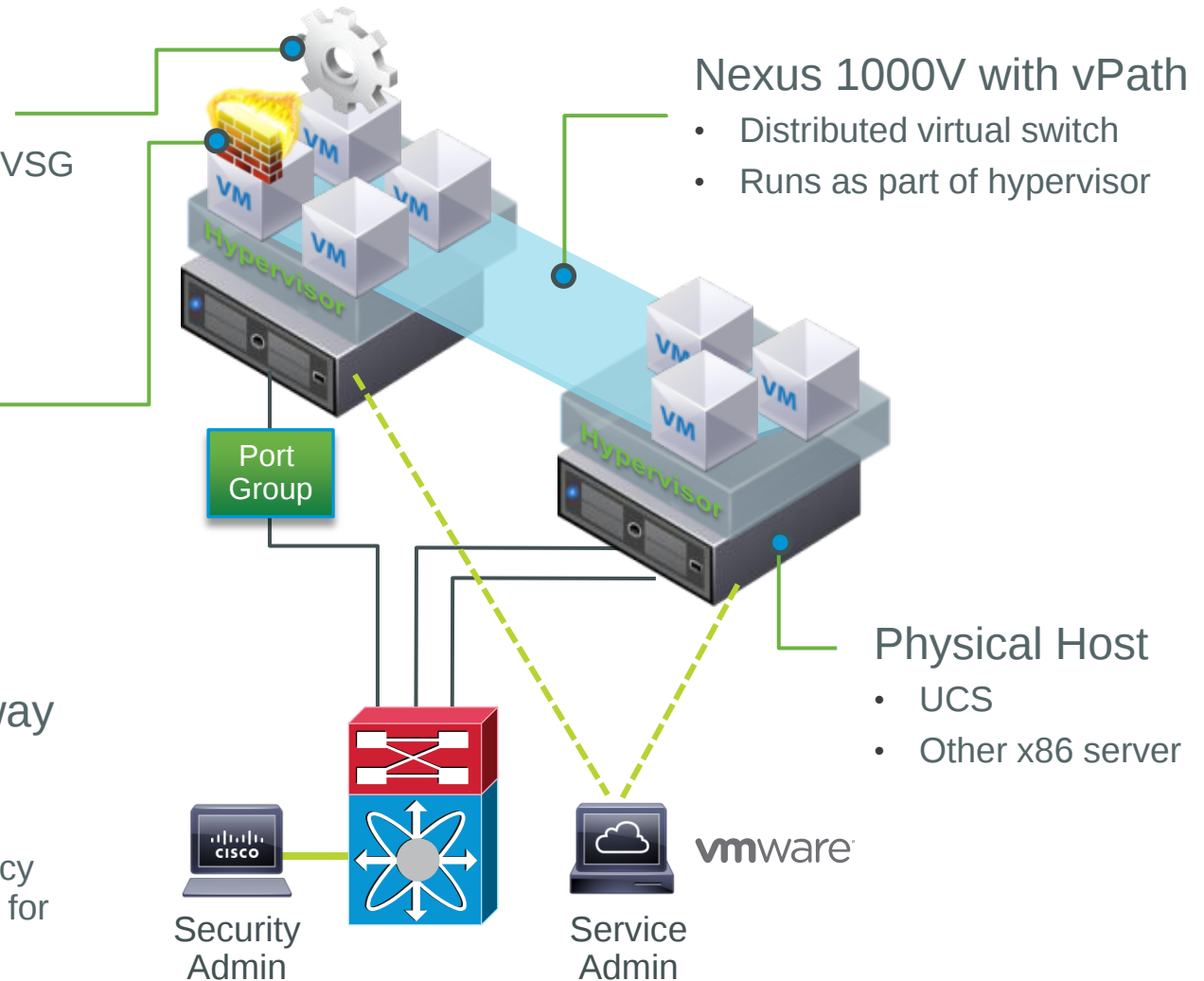
Virtual Network Management Center

- Management console for VSG
- Runs on one of the VMs



Virtual Security Gateway

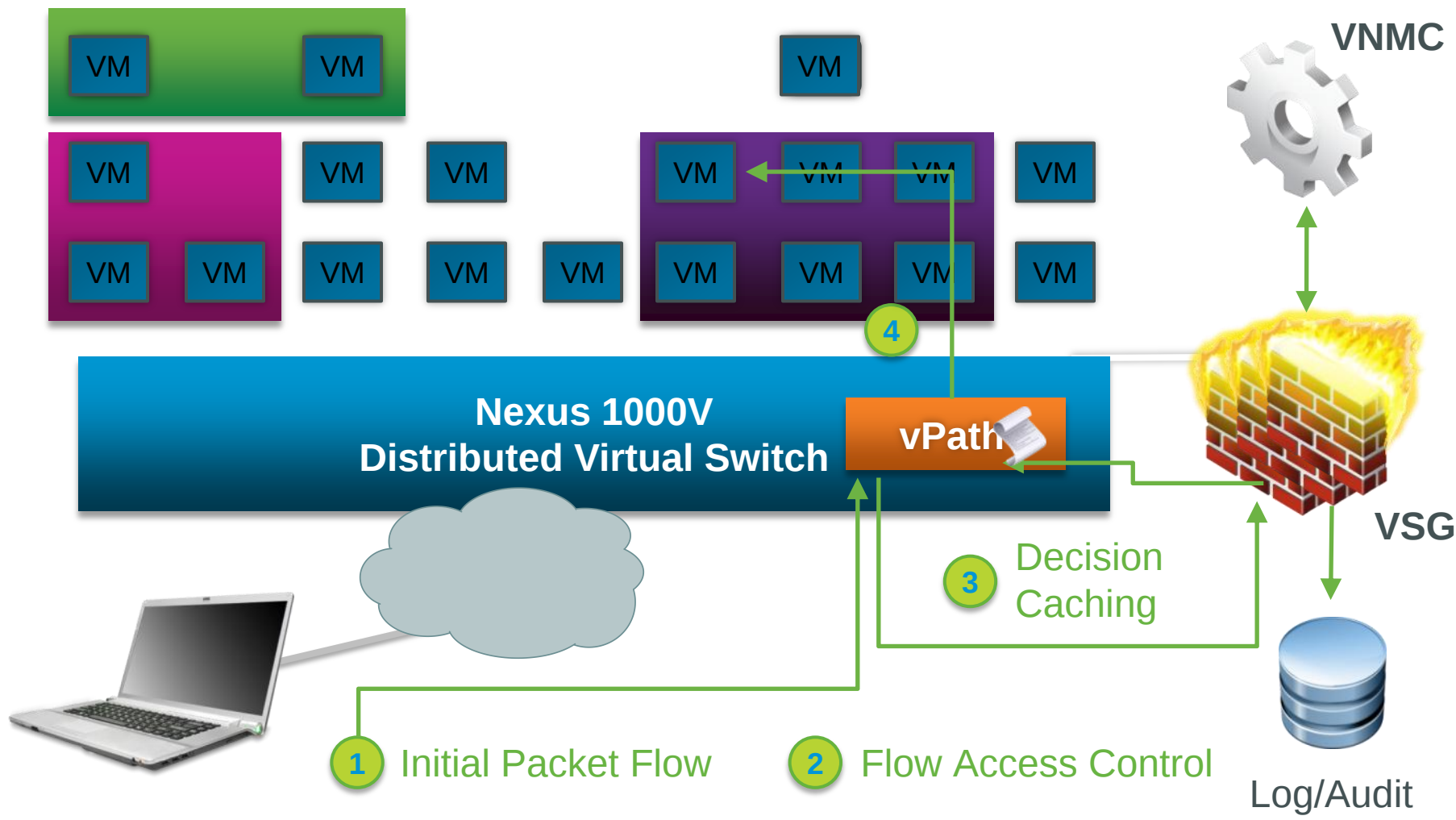
- Software-based firewall
- Runs on one of the VMs
- Provides zone-based policy and secure segmentation for all VMs



Cumulus congestus



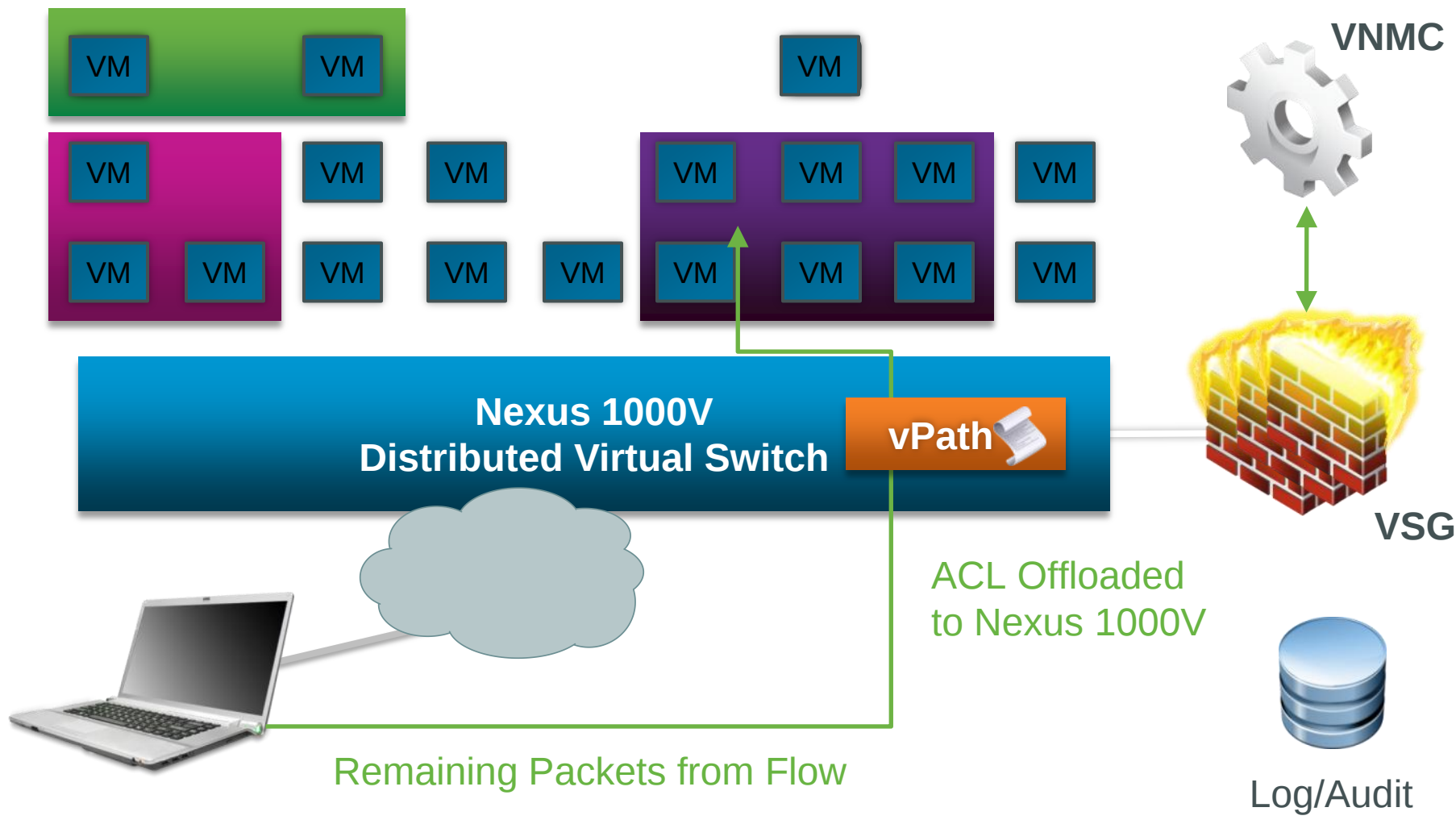
VSG: Intelligent Traffic Steering with vPath



Mammatus



VSG: Performance Acceleration with vPath



Currus



VSG: Rule construct

Rule

✓

✓

Source Condition

Destination Condition

Action

Condition

Attribute Type :

Network

▼

Expression

Attribute Name :

IP Address

▼

Operator :

eq

▼

Attribute Value :

192 . 168 . 1 . 2

drop

permit

reset

log

New

Attribute Type

Network

VM

User Defined

vZone

VM Attributes

Instance Name

Guest OS full name

Zone Name

Parent App Name

Port Profile Name

Cluster Name

Hypervisor Name

Network Attributes

IP Address

Network Port

Operator

eq

neq

gt

lt

range

Not-in-range

Prefix

Operator

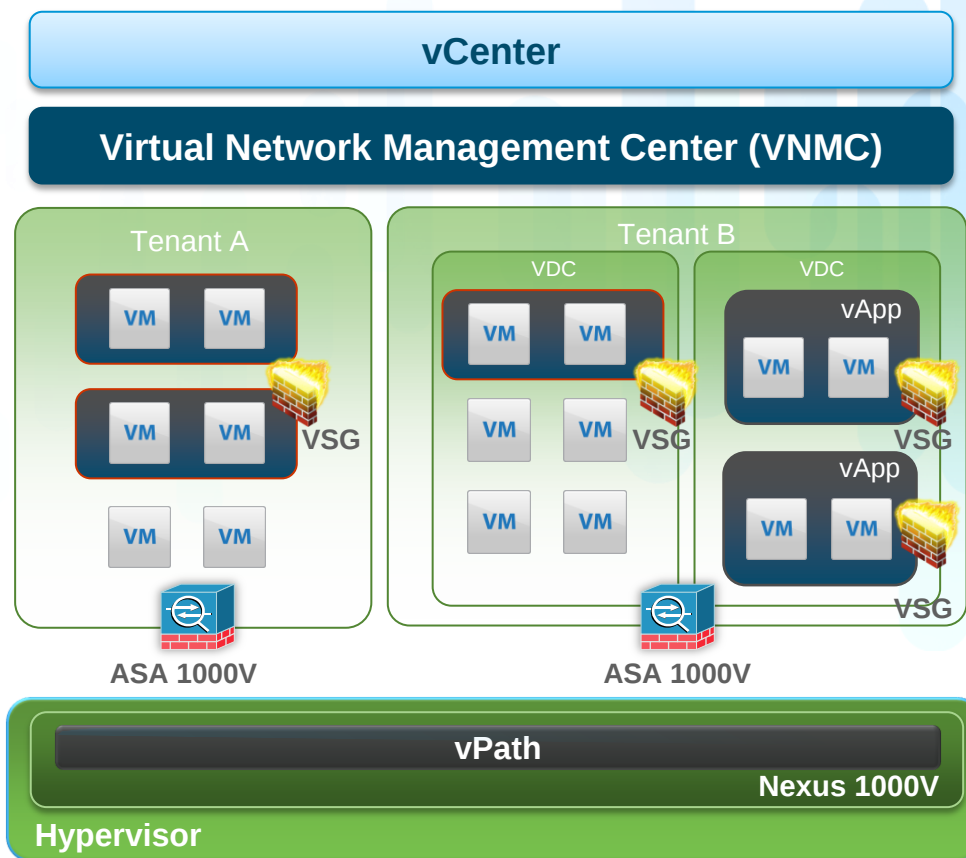
member

Not-member

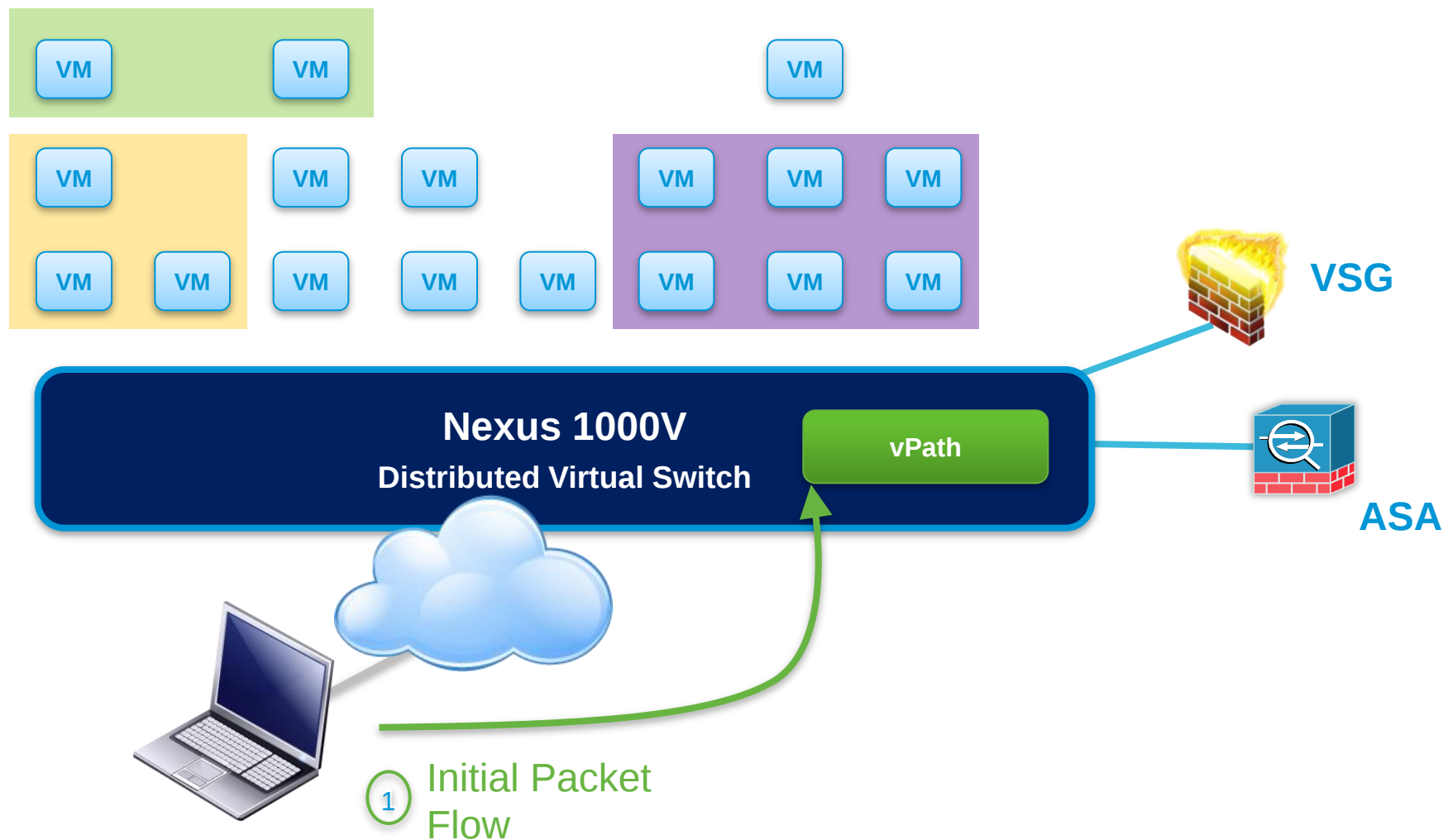
Contains

Securing Tenant Edge with ASA 1000V

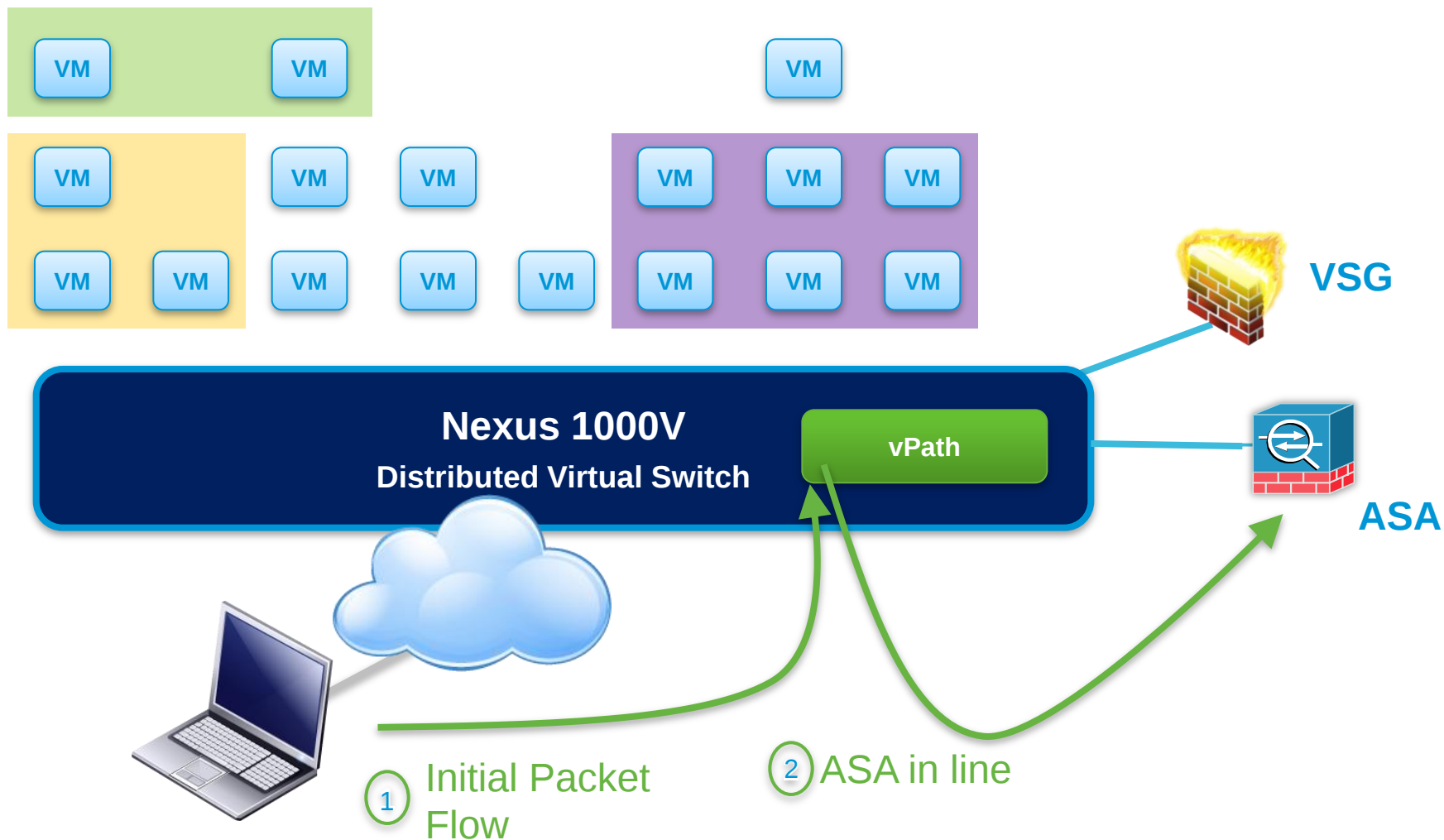
- Proven Cisco Security...Virtualized Physical – virtual consistency
- Collaborative Security Model
VSG for intra-tenant secure zones
ASA 1000V for tenant edge controls
- Seamless Integration
With Nexus 1000V & vPath
- Scales with Cloud Demand
Multi-instance deployment for horizontal scale-out deployment

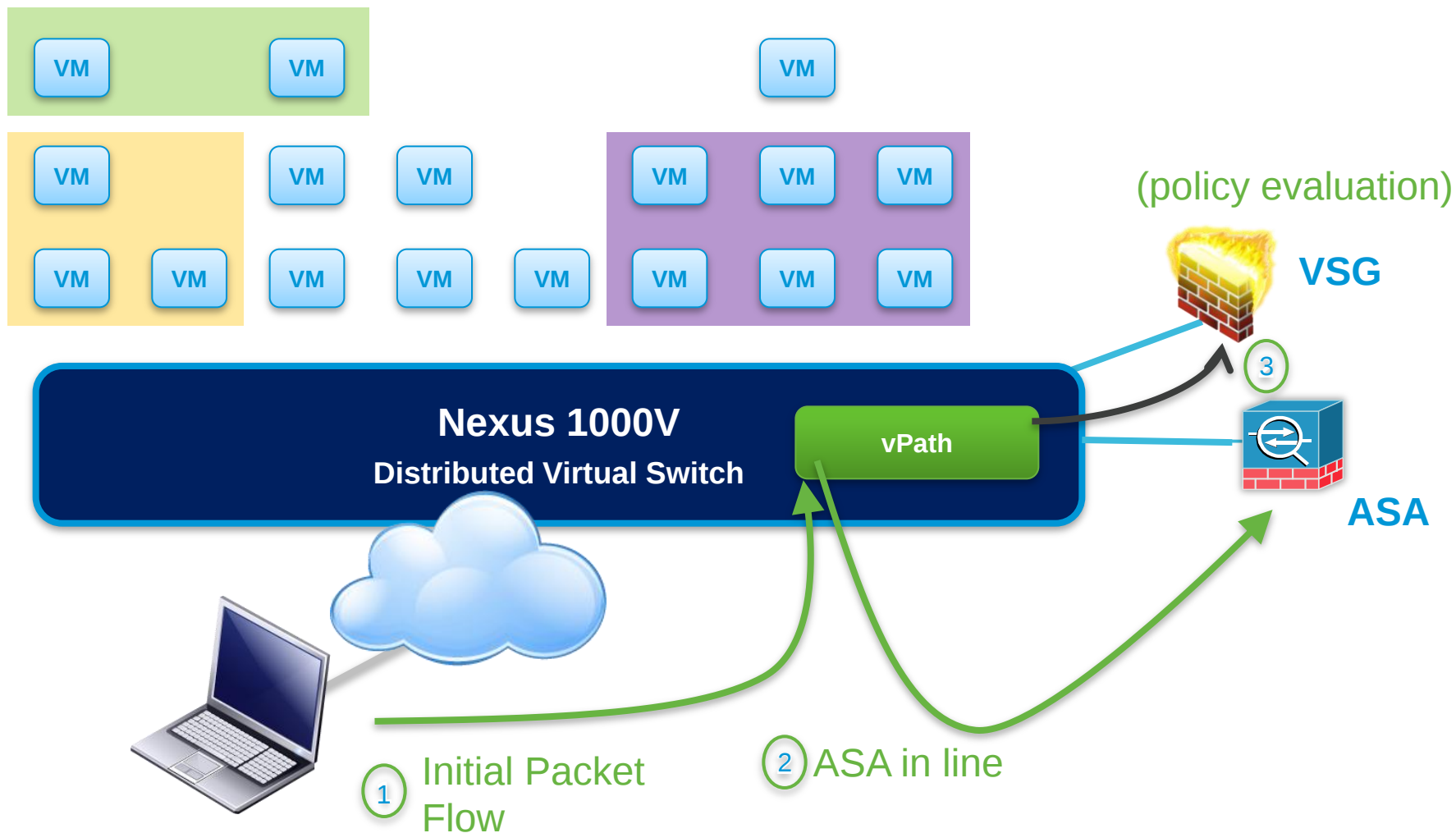


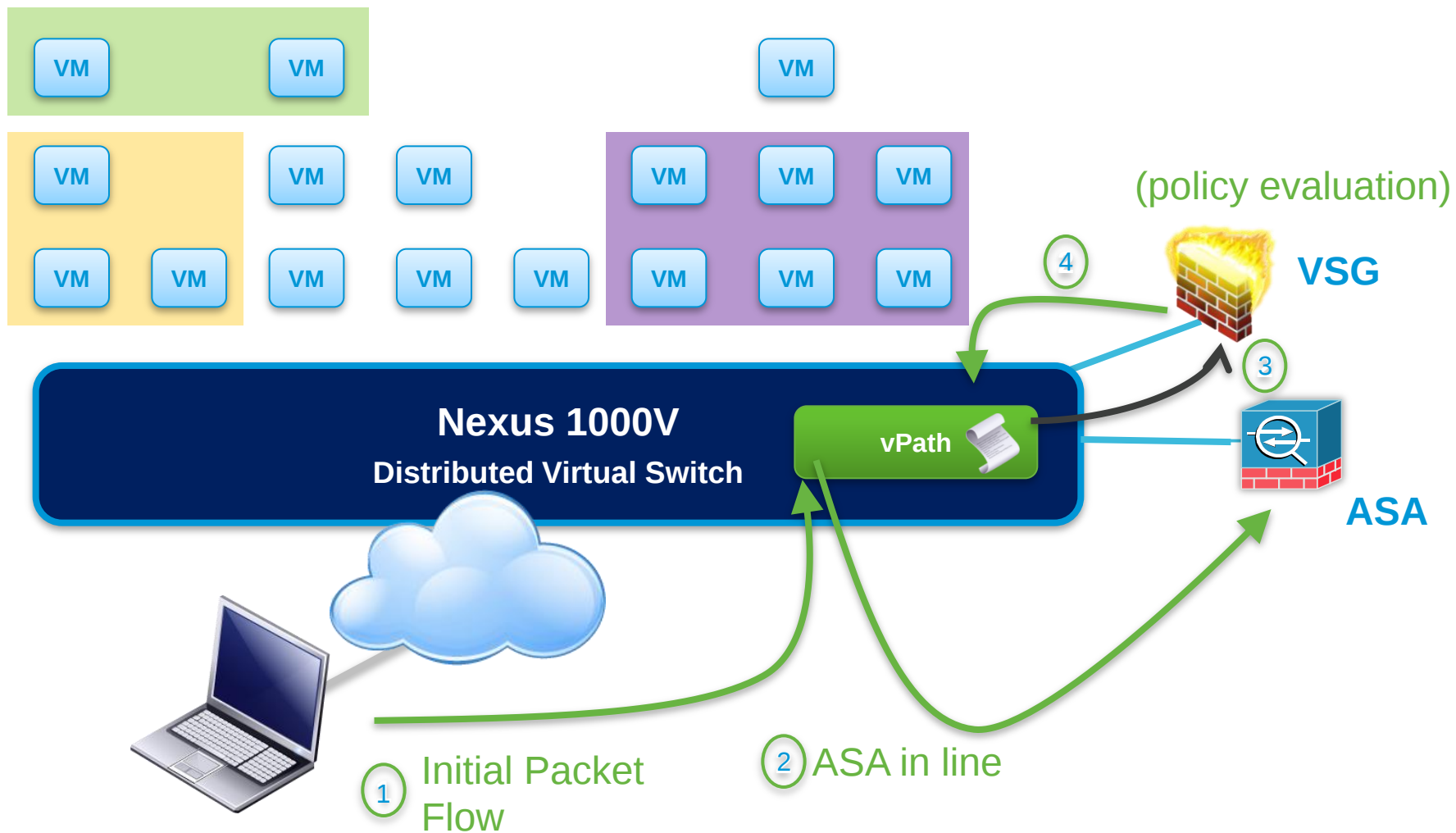
VSG / ASA Intelligent Traffic Steering with vPath

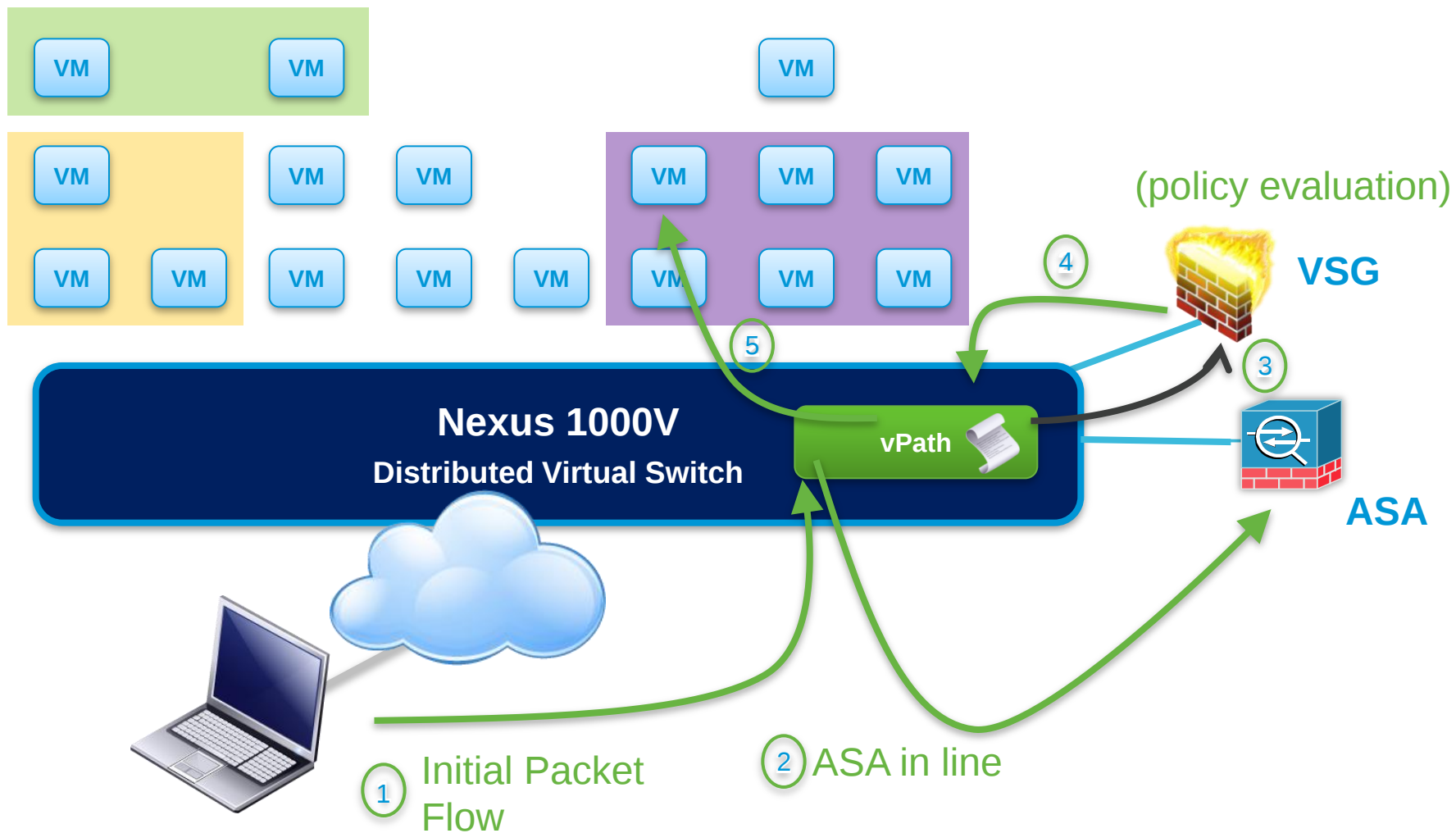


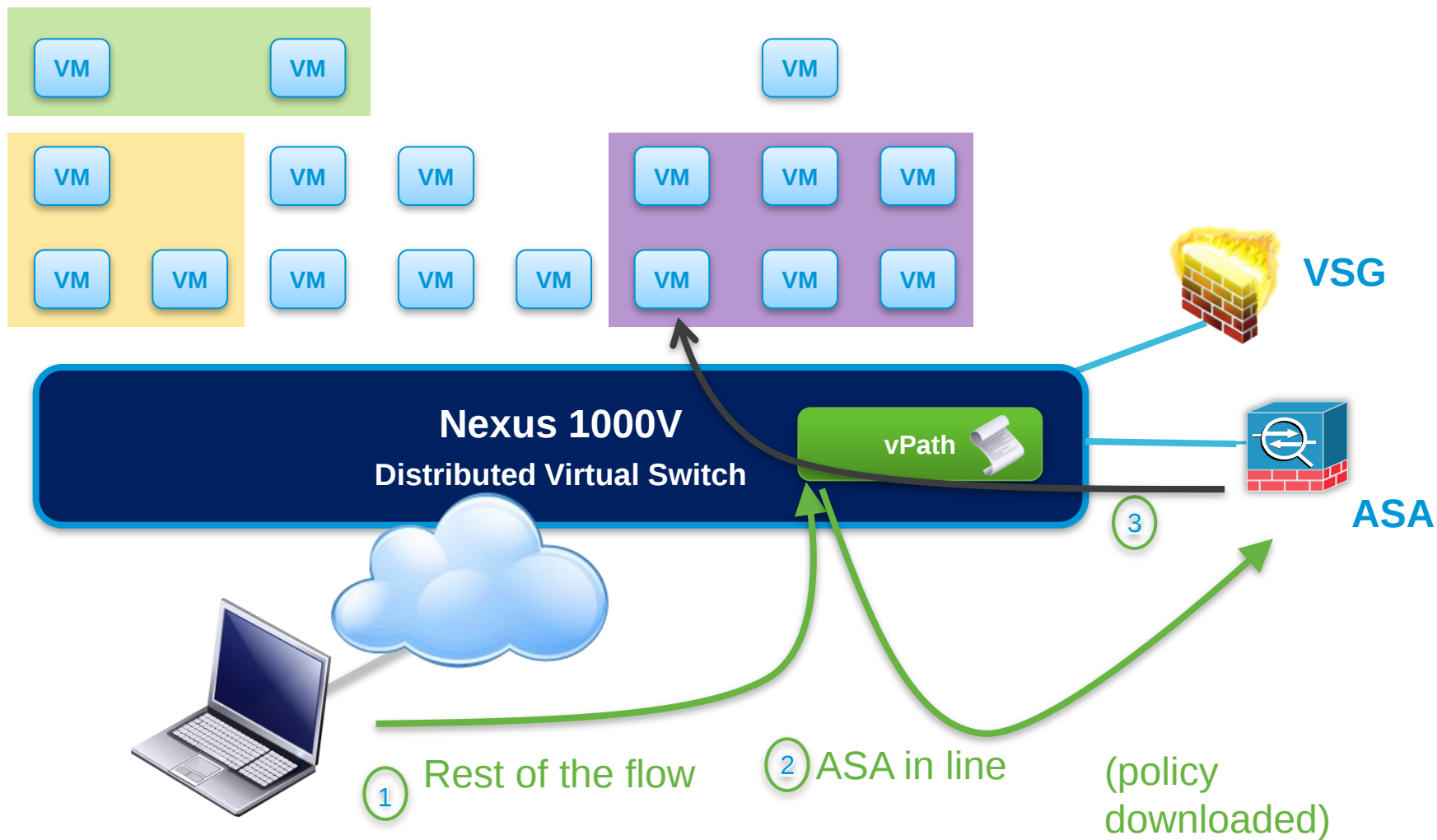
Cirrus spissatus incus



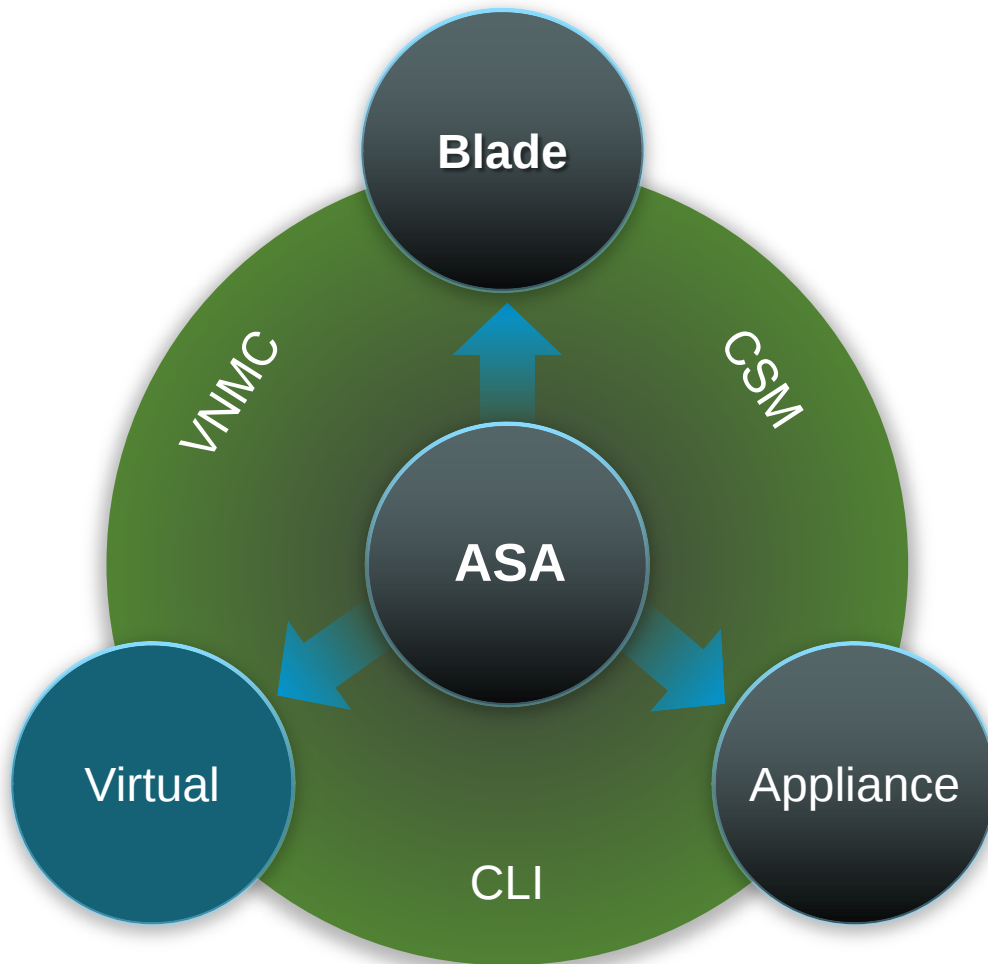








ASA 1000V: Consistent ASA Feature Set

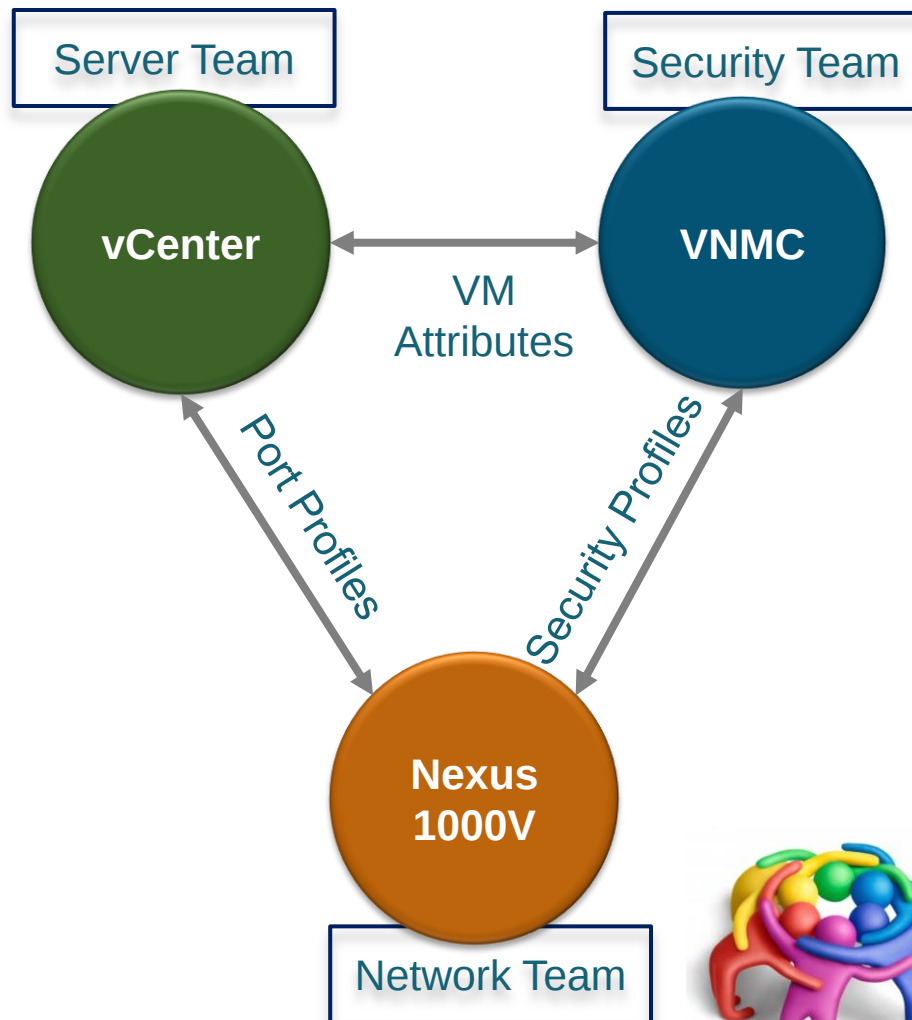


Developed using existing ASA infrastructure

Single code base across all ASA deployments

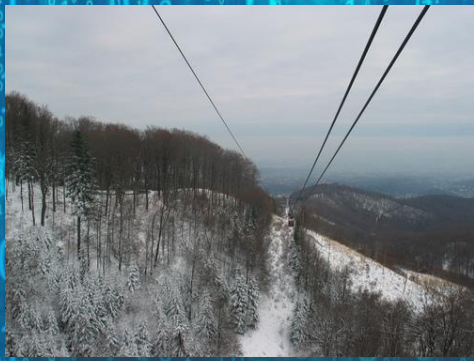
Customized to provide enhanced security for tenant edge deployments

Non-disruptive Operations



Stratus opacus





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CISCO

