Cisco Application Centric Infrastructure and Citrix NetScaler Solution

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## Business Demand:
### Transition to Modern Cloud Operations

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**Objective**

Enable faster IT delivery and more efficient business processes
Cisco SDN Solutions by the Numbers

1700+ Cisco Nexus® 9000 Series and Cisco® ACI Customers Globally

300+ Cisco APIC Customers

35 Ecosystem Partners

- Security
- Network
- Cloud
- Application
- Computing
- Storage
Data Center Transformation Response: Become Application Centric

1. Application-Centric Policy Model
   - Operationally simple
   - Lower TCO
   - Zero-touch provisioning

2. Physical and Virtual
   - Performance and scale
   - Health metrics
   - Visibility and telemetry

3. Open and Secure
   - Open APIs and open source
   - Secure multitenancy
   - Extensive ecosystem
Citrix NetScaler has been powering enterprise and e-commerce applications since 2002.
Citrix NetScaler TriScale Technology

- **Buy only what you need**
- **End appliance sprawl**
- **Elasticity with pay-as-you-grow model**
- **Simplicity with many-in-one model**
- **Start small - grow forever**
- **Scale In**
- **Scale Up**
- **Expandability with add-and-go model**
- **5x**
- **80:1**
- **32x**

- **Simplicity**
- **Expandability**
- **Elasticity**
- **Pay-as-you-grow**
Cisco ACI plus Citrix NetScaler: Service Automation

- Cisco® Application Policy Infrastructure Controller (APIC) provides extensible policy model through device package
- APIC administrator can import Citrix NetScaler device package
- Device package is an XML file defining device configuration model and parameters required for Layer 4 to 7 use cases
- After it has been imported, APIC can configure NetScaler functions and parameters
- Device scripts translate APIC API callouts to device-specific callouts
Citrix NetScaler: Advanced Device Package

- AAA
- Application firewall
- Cache redirection
- Compression
- Content accelerator
- Content switching
- Data stream
- Domain Name Service (DNS)
- Global server load balancing
- Integrated caching
- Load balancing
- SSL offload
- SSL VPN

Comprehensive set of application delivery controller (ADC) features

14 deployment templates
Cisco plus Citrix: Application Delivery at the Speed of the Business

Router
Firewall
Router
Load Balancer
Switch
Virtual Firewall
Server

Citrix NetScaler Device Package

APIC – Policy Manager
Configuration Model (XML File)

Script Engine
APIC - Script Interface
Python Scripts

On
Off

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Citrix plus Cisco: Strategic Partnership
Cisco ACI and Citrix Partnership:
Customer Endorsements

“Instead of taking a few weeks to deliver IaaS, we can now do it in a few seconds.”
- John Manville, Cisco IT

“A significant portion of our operational staff time is spent provisioning and troubleshooting network end points. With ACI much of this becomes automated.”

“Citrix NetScaler is the only application delivery controller that fully integrates into Cisco ACI… [It] allows Quest operational efficiencies while enhancing the customer experience and offer.”
- Mike Dillon, CTO

“Cisco ACI framework will enable our Citrix customers to take advantage of solutions such as Citrix Mobile Workspaces… ACI open policy model will truly benefit our customers integrating the mobile workspace along with cutting-edge NetScaler.”
TCO: Achieving CapEx and OpEx Benefits

**CapEx**
- Merchant plus: Remove the risk of white-box economics
- BIDI eliminates cost to transition to 40/100

**80% of OpEx value of Cisco® ACI comes from these features:**
- Automate network connectivity
- Offload ACLs into policy
- Redirect traffic to appliances
- Turn on EPG visibility

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**Network Access**

- Minor: 19%
- Medium: 29%
- Complex: 42%

**Access Control Lists**

- Minor: 14%
- Medium: 21%
- Complex: 65%

**Local Server ADC**

- Minor: 24%
- Medium: 14%
- Complex: 62%

**Global Server ADC**

- Minor: 7%
- Medium: 14%
- Complex: 89%

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**Where to Start**

1. Connectivity
2. Security and services
3. Application profiles
For More Information

Cisco® Application Centric Infrastructure (ACI)
https://www.cisco.com/go/aci

Cisco ACI plus Citrix NetScaler
http://www.cisco.com/go/acicitrix
Continue the Journey with Cisco at Citrix Synergy

Visit the Meet the Expert counter for more information on our products and solutions.