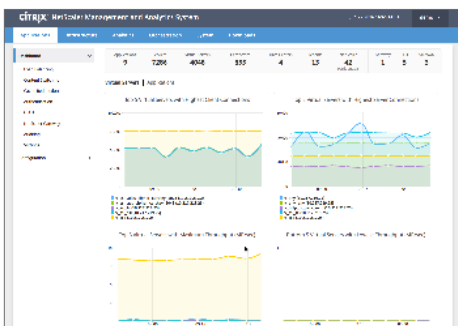


# NetScaler Management and Analytics System (MAS)

NetScaler MAS is a centralized network management, analytics, and orchestration solution that can support applications deployed across bimodal IT infrastructures. From a single platform, administrators can view, automate, and manage network services for applications deployed on-premise, in the cloud or in containers.



### Key Benefits

- Centralized management for all NetScaler appliances and instances
- SSL certificate management to minimize access disruptions
- Automated provisioning of NetScaler services
- Application-centric configuration templates to simplify application deployment
- Integrates with third party orchestration platforms
- Scheduling of firmware upgrades with no downtime
- Support for multi-cloud and hybrid environments
- Comprehensive role-based access to different groups and users
- Logging and analytics to provide actionable insights

### Enabling Datacenter Automation

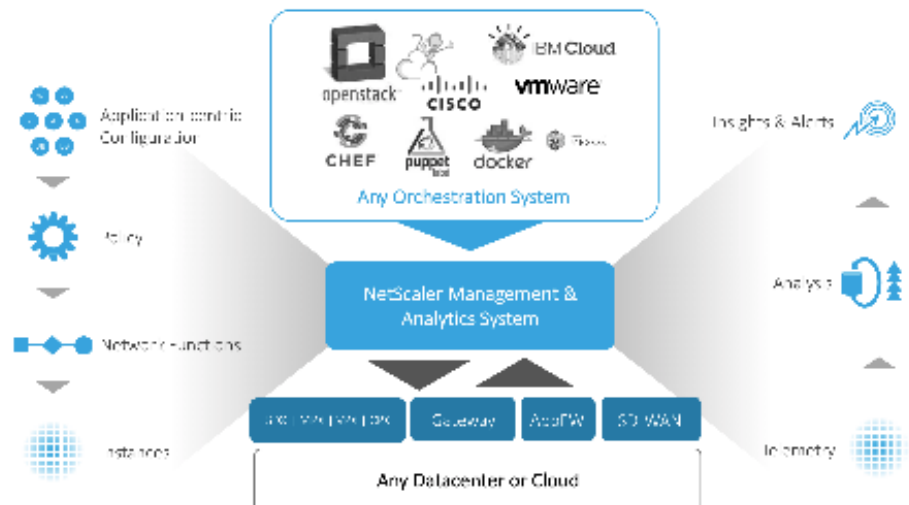
NetScaler MAS provides seamless integration with many of the leading orchestration platforms that enterprise customers are deploying to automate their data centers. As the data center evolves towards a software-defined topology, automation of supporting services becomes increasingly important. MAS provides brokered support for services delivered by NetScaler across many common orchestration platforms.

- MAS is API driven in order to enable orchestration and analytics across many third party platforms
- Management and orchestration of containerized services
- Automation of NetScaler lifecycle management and provisioning

### Delivering Data Driven Analytics

NetScaler MAS serves as a critical data aggregation point for applications serviced by NetScaler. Application specific data points and transactions are presented to an administrator with insights into performance and reliability.

- Log aggregation at scale (thousands of instances)
- Comprehensive set of insights on customer usage and behavior
- Per transaction visibility, reporting and roll-ups to easily identify errors and visibility into transaction and application performance
- Key insights into web traffic, security, SSL, HDX and remote VPN sessions
- Machine driven triage to scan for anomalies in log and counter data across all configured applications



## Simplifying Network Administration



NetScaler MAS offers visual dashboards that provide a high level overview of all deployed NetScaler instances. Events can be proactively monitored to get ahead of potential application disruptions and issues.

- Centralized management and configuration across all instances from a single dashboard
- Scheduling for software upgrades across all NetScaler instances

- SSL certificate management for renewals and policy enforcement
- Configuration jobs and templates to simplify repetitive administrative tasks

## Application Centric Lifecycle Management

Simplification of application deployments with NetScaler for developers where they don't need to know how to configure NetScaler to deploy. Role based access for developers to NetScaler configurations to empower developers, and reduce the burden on infrastructure operations to manage these requests.

- Application oriented templates that enable developers to easily implement functionalities in NetScaler
- Role-based partitioned access to application developers and owners

- Declarative application configurations and templates built in the GUI as NetScaler stylebooks
- Curated application stylebooks that can be sourced from the community

## Ensuring Platform Independence

NetScaler MAS provides support for NetScalers deployed in any form factor; on premise or in the cloud. Deployments are abstracted as instances that can span across physical appliances or commodity servers, and is highly scalable.

- Centralized management for NetScaler MPX, SDX, VPX, CPX and SD-WAN
- Supports deployments across on premise or cloud-based hosts

## Licensing

NetScaler MAS is deployed as a virtual machine. Infrastructure management and orchestration of NetScaler products can be implemented without incurring any licensing or subscription fees. NetScaler MAS is licensed as follows:

- Annual subscription basis (single and multi-year)
- vServer packs (Each pack supports up to 100 virtual servers)
- Application management and analytics above 30 virtual servers will require a subscription license

### System Requirements

#### XenServer

- XenServer 5.6 or later
- RAM: 8 GB
- Virtual CPU: 4 (8 recommended)
- Storage: 120 GB (500 GB recommended)
- Virtual Network Interfaces: 1

#### XenCenter

- Windows 7, Windows XP, Windows Server 2003 or Windows Vista
- .NET Framework version 2.0 or later

- RAM: 1 GB minimum, 2 GB recommended
- Network Interface Card (NIC): 100 Mbps or faster

#### VMWare

- ESXi 4.1 or later
- RAM: 8 GB
- Virtual CPU: 4 (8 recommended)
- Storage: 120 GB (500 GB recommended)
- Virtual Network Interfaces: 1
- Throughput: 1 Gbps or 100 Mbps

#### Linux KVM Host

- CPU: 64-bit x86 processor with hardware virtualization included
- AMD-V or Intel VT-X
- RAM: 16 GB
- Storage: 600 GB

#### Linux Guest

- RAM: 8 GB
- Virtual CPU: 4 (8 recommended)
- Storage Space 120 GB (500 GB recommended)
- Virtual Network Interfaces: 1
- Throughput: 1 Gbps or 100 Mbps



### About Citrix

Citrix (NASDAQ:CTXS) is leading the transition to software-defining the workplace, uniting virtualization, mobility management, networking and SaaS solutions to enable new ways for businesses and people to work better. Citrix solutions power business mobility through secure, mobile workspaces that provide people with instant access to apps, desktops, data and communications on any device, over any network and cloud. With annual revenue in 2014 of \$3.14 billion, Citrix solutions are in use at more than 330,000 organizations and by over 100 million users globally. Learn more at [www.citrix.com](http://www.citrix.com).

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