

VISUALIZE  
AUTOMATE  
SECURE

# Microsegmentation

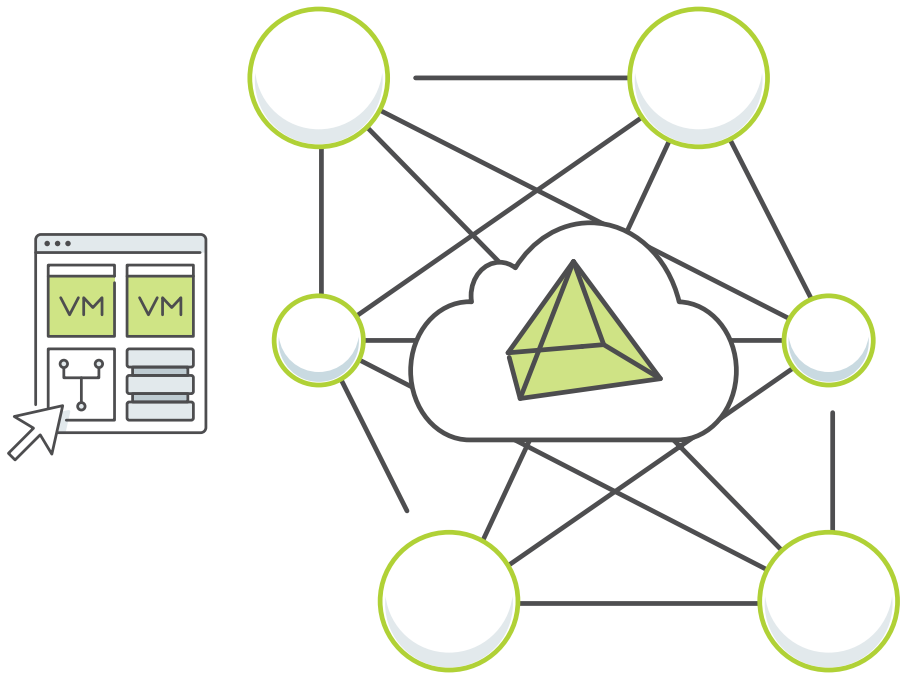
## Functions

VM Microsegmentation  
Application Visualization  
Service Chaining  
Policy-based Control  
Network Automation  
NFV Support

The network is the foundation for the connected Enterprise. With increasing application complexity, driven by distributed services and rapid growth in SaaS and cloud-based offerings, the need to easily visualize, analyze and govern network communications becomes critical.

Nutanix delivers advanced networking and security services, providing visibility into the virtual network, application-centric protection from network threats and automation of common networking operations.

Fully integrated into the Enterprise Cloud OS and Nutanix AHV virtualization, Nutanix allows organizations to deploy software-defined virtual networking without the complexity of installing and managing additional products that have separate management and independent software maintenance requirements.



## Key Benefits

- Application centric firewall policies for VMs
- Always-on native networking functionality with no additional software or management consoles
- Full application-level network flow visibility
- Automated policy change management tied to VM lifecycle
- Prevent the propagation of network security threats
- Expand functionality via third-party network inspection and policy tools

**NUTANIX**  
Your Enterprise Cloud Platform™

## APPLICATION VISUALIZATION

Setting the right application-centric network policies requires a complete understanding of workload behavior. Prism management provides real-time visualization of communications between VMs, making it simple and straight-forward to set the right policies for the environment.

## Network Microsegmentation

Microsegmentation provides granular control and governance of all traffic into and out of a virtual machine (VM), or groups of VMs. It ensures that only permitted traffic between application tiers or other logical boundaries is allowed and protects against advanced threats propagating within the virtual environment.

Microsegmentation differs from traditional perimeter firewalls by allowing network policy to be attached to VMs and applications, rather than specific network segments (e.g., VLANs) or identifiers (IP addresses). Through centralized management from Prism, policies are auto-updated throughout the VM lifecycle, removing the burdens of change management.

## Service Insertion and Chaining

Functionality can be extended to leverage virtualized network functions from third-party software. These services are inserted in-line or in tap-mode with VM traffic, and can be easily enabled for all traffic, or deployed only for specific network traffic. Common network functions include virtual firewalls, load balancers, threat detection, and application performance monitoring.

## Network Automation

The Enterprise Cloud OS provides API based notifications enabling third-party network devices to observe VM lifecycle events, such as the instantiation of a new VM into the Nutanix environment. This enables automation of typical network configuration changes, such as the provisioning of VLANs or dynamically updating firewall and load balancer policies.

## RESOURCES

- [nutanix.com/security](https://nutanix.com/security)
- [nutanix.com/acropolis](https://nutanix.com/acropolis)

## PRICING AND AVAILABILITY

Nutanix Microsegmentation is built into the Nutanix Enterprise Cloud OS software, and works seamlessly with AHV virtualization. Capabilities are delivered with AHV and are licensed separately from Acropolis Editions.

|                                | All Acropolis Editions | Additional License |
|--------------------------------|------------------------|--------------------|
| Service Insertion and Chaining | ✓                      |                    |
| Network Automation             | ✓                      |                    |
| Application Visualization      |                        | ✓                  |
| Microsegmentation              |                        | ✓                  |



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Nutanix delivers invisible infrastructure for next-generation enterprise computing, elevating IT to focus on the applications and services that power their business. The company's software-driven Xtreme Computing Platform natively converges compute, virtualization and storage into a single solution to drive simplicity in the datacenter. Using Nutanix, customers benefit from predictable performance, linear scalability and cloud-like infrastructure consumption.  
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