

Modernize Your Enterprise

NIOS 9.0.5: Secure Discovery, Integration and Control for the Hybrid, Multi-Cloud Enterprise

Network system security is an essential preventative strategy for network uptime and application availability. Asset discovery and visibility across on-prem, hybrid and multi-cloud environments empowers NetOps and SecOps teams, accelerates issue response and enables network resiliency and control. These qualities are essential for keeping businesses running at peak performance and driving revenue in today's highly competitive and rapidly evolving network landscape.

As the market leader in critical network services, Infoblox continues our unwavering commitment to our customers with ongoing investment in our flagship platform, Network Identity Operating System (NIOS). Based on a quarter-century of research, listening to customers and developing innovative market solutions, Infoblox announces the next iteration of its best-of-breed DNS, DHCP and IP address management (DDI) platform: NIOS 9.0.5. This latest, most advanced iteration of the NIOS platform helps ensure network availability and solves the complexities of data center management, legacy to hybrid, multi-cloud migration, platform integration and automation.

NIOS 9.0.5 enhances system security, delivers hybrid, multi-cloud discovery and extends Plug-In integrations that improve deployment, automation, ROI and time-to-value. NIOS 9.0.5 helps keep the network secure, available and performing, unifying management visibility and control, cloud automation and platform integrations. NIOS DDI provides the competitive edge to empower productivity and simplify management across modern commercial and enterprise networks—today and for the future.

BUSINESS CHALLENGES

Organizations are facing higher expectations and greater business and technological complexities than ever. Customers, partners and staff expect 100 percent uptime whenever and wherever they connect. Applications must be secure, available, performing and resilient to ensure productivity, especially with remote workers and the expansion of distributed environments. Mounting pressures include cost management, greater agility and innovation for better ROI and faster time-to-value across every market vertical.

Businesses expect their network teams to establish and maintain a reliable and responsive network that can adapt to changing needs and scale dynamically across geographies wherever the business goes next. Companies are rushing to transition legacy data center infrastructure to hybrid and multi-cloud applications and workloads. This transition increases the demand for greater contextual visibility, accuracy, consistency and integration. Network automation is necessary to streamline provisioning, simplify workloads, reduce costs and eliminate inefficient processes and errors so staffing resources can be redirected to more strategic, higher-value assignments. The network must enable innovation and rapid deployment of new services while minimizing overhead. It must be able to optimize infrastructure and secure data, especially in view of escalating BYOD, mobility and IoT endpoints and the increasing risks of complex malware, ransomware and data exfiltration. That is a lot to manage, and these challenges are only increasing.

Fortunately, no matter what the situation, Infoblox can help. For large enterprises, service providers and commercial organizations, NIOS 9.0.5 delivers market-leading critical network and value-added solutions to empower productivity and simplify management across hybrid and multi-cloud platforms. Unlike other networking companies, Infoblox leverages more than two decades of integrated DDI, innovating to unify visibility, automation and control for enterprise-grade reliability, resiliency and consistency. Expanded cloud capabilities, customer-driven enhancements and extensive integrations reduce complexity, boosting ROI and efficiency to save time and money. Robust APIs accelerate innovation, speeding time-to-value and enabling agility by scaling workloads where they are needed most. NIOS helps ensure availability, mitigate risk and drive innovation and productivity across the hybrid, multi-cloud enterprise today and in the future.

NIOS 9.0.5 SOLUTION BENEFITS

Multi-Cloud Synchronization, Protection and Integration Deliver Uptime and Resiliency

- **NIOS Virtual Advanced DNS Protection (vADP) for Azure Public Cloud Enables Network Uptime**

As DDoS attacks on Dyn and others have shown, organizations must protect against enterprise DNS-based attacks to minimize costly business disruptions. NIOS 9.0.5 adds vADP for Azure public cloud to detect and mitigate the widest range of DNS attacks including volumetric, NXDOMAIN, DNS hijacking and other exploits. This enables admins to maintain DNS integrity, enhance uptime and extend external DNS protection from local on-premises to public cloud environments.

- **NIOS Sync with Google Cloud Platform (GCP) Cloud-Native DNS Improves Capability and User Experience**

NIOS 9.0.5 enables admins to configure read synchronization to match GCP Cloud-Native DNS applications for Infoblox objects and the user interface. This feature aligns with current Azure and Amazon Route 53 capability, improving user experience and consistency across cloud platforms.

- **NIOS Google Cloud VMware Engine (GCVE) Support for VMware on GCP Enhances Flexibility and User Experience**

NIOS 9.0.5 adds Google Cloud VMware Engine (GCVE), allowing organizations to better migrate and manage on-prem VMWare/vSphere/ESXi workloads to GCP without having to re-architect applications. Admins can continue using standard VMware tools, processes and apps, including ESXi hypervisors, vCenter, vSphere, NSX-T networking and Hybrid Cloud Extension (HCX) for greater efficiency and control.

Stronger DNS, DHCP and IPAM (DDI) Network Services

- **NIOS Threat Insight Boosts Threat Protection and Network Uptime**

NIOS 9.0.5 upgrades Threat Insight algorithms for improved threat detection and resiliency, enhances machine learning (ML) threat algorithms, syncs NIOS to Threat Insight's latest detection technologies, reduces false positives, decreases disruptions and boosts data exfiltration processing capabilities for enhanced system security.

- **Host Name/Fully Qualified Domain Name (FQDN) Transmission Control Protocol (TCP) Certificate for External Syslog Servers Hardens System Security**

NIOS 9.0.5 enhances visibility and security via the host/FQDN TCP certificate, lowering cost and improving flexibility by allowing the use of existing Secure Socket Layer (SSL) certificates for external Syslog servers.

Enhanced DDI Value-Added Solutions (VAS)

- **Network Insight Virtual Extensible LAN (VXLAN) Discovery and Switch Port Control Adds Scalable Visibility and Management**

With NIOS 9.0.5, Network Insight enables discovery of Virtual Extensible LAN (VXLAN) and VXLAN IDs along with the association of physical and virtual switch ports. This feature helps admins solve scalability and management challenges in large, virtualized cloud computing deployments (up to 16 million logical networks).

- **Network Insight Silver Peak (HPE Aruba) Software Defined Wide Area Network (SD-WAN) Support Elevates Visibility and User Experience**
Expand Network Insight discovery of remote network assets using the Infoblox Application Programming Interface (API) and Silver Peak (HPE Aruba) SD-WAN engine for greater visibility, user experience and control with NIOS 9.0.5.
- **NIOS DNS Traffic Control (DTC) GUI Performance Upgrade Increases Processing Speed and Improves User Experience**
NIOS 9.0.5 significantly raises graphical user interface (GUI) performance and accelerates screen response time for greater productivity and improved user experience in large scale deployments.

Extended DDI Integrations and Plug-Ins

- **Terraform IPAM Plug-In Improves Automation and User Experience**
Infoblox's latest Terraform IP Address Management (IPAM) Plug-In delivers improved resource efficiency, automation and control. It upgrades Terraform (v0.14 to v1.8.1) and Go language (v1.17 to v1.21) to eliminate manual steps when retrieving object IDs through web API (WAPI) calls. The Plug-In further automates the migration of legacy DNS platforms to NIOS and creates authoritative DNS and conditional forwarder zones. It also includes a block import feature to gather objects seamlessly with a simple command or the Go module to increase efficiency, simplify complexity and improve control over hybrid, multi-cloud networks.
- **NIOS Hyper-V Support for Windows 2022 Extends Operations Consistency**
For organizations using Microsoft 2022, NIOS 9.0.5 provides Hyper-V support for Microsoft 2022 based on rigorous compatibility, validation and testing to ensure a consistent user experience, confidence, trust and uninterrupted business operations.
- **NIOS Support for Red Hat Enterprise Linux (RHEL) v9.3 Ensures Workload Continuity**
Address Red Hat's sunset of RHEL 7.x by deploying NIOS 9.0.5 for continued operations, compatibility and the feature enhancements delivered in RHEL v9.3. This update provides a consistent user experience, confidence and trust based on compatibility validation and testing with recent versions of RHEL v9.3.
- **NIOS for VMware vSphere ESXi8.0u2 Enables Secure Workload Consistency**
Improve performance, efficiency and innovation with NIOS 9.0.5, which provides verified concurrency support for NIOS with VMware vSphere ESXi8.0u2. The vSphere release supports more graphics processing unit (GPU) resources per virtual machine to accelerate processing speeds, integrate hybrid cloud services and reduce maintenance times.

For more information, a demo of our solutions for your use cases, or to start a NIOS DDI product trial, visit [NIOS](#) on Infoblox.com or contact your preferred partner or account team.



Infoblox unites networking and security to deliver unmatched performance and protection. Trusted by Fortune 100 companies and emerging innovators, we provide real-time visibility and control over who and what connects to your network, so your organization runs faster and stops threats earlier.

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