

NIOS-X Server Options

Streamlined delivery of critical network services for distributed hybrid, multi-cloud environments

OVERVIEW & CHALLENGES

Businesses are embracing hybrid (i.e., on-premises, public and private cloud) and multi-cloud deployments to modernize their infrastructures and IT operations for greater agility, speed and simplicity. These trends are driven by the need to innovate faster, streamline operations, modernize workloads and even integrate environments during and after mergers and acquisitions. However, deploying and managing critical network services such as DNS, DHCP and IP address management (DDI) in these environments has become a major challenge.

To address this, enterprise organizations are increasingly reducing hardware footprints in distributed locations and seeking true cloud alternatives as they modernize and scale their networks. As-a-service deployments simplify traditionally complex environments. So, these requirements have become foundational and span across network infrastructures, from branch offices and private data centers to cloud workload migrations and new cloud deployments. By embracing these alternatives, businesses can enhance their operational efficiency and adaptability in today's dynamic IT landscape.

INFOBLOX SOLUTIONS

Infoblox, the industry leader in DDI management, offers a full range of flexible deployment options for the delivery and management of critical network services. These options include NIOS-X as a Service, the industry's most advanced infrastructure-free solution for hybrid, multi-cloud environments, NIOS-X Virtual Servers for virtual and container-based deployments, and NIOS-X Physical Servers when a physical solution is preferred. NIOS-X as a Service, NIOS-X Virtual Servers and NIOS-X-Physical Servers are integral parts of a comprehensive set of service delivery options designed to meet the growing demands of any organization.

NIOS-X AS A SERVICE

NIOS-X as a Service is the industry's most advanced cloud delivery solution for the deployment and management of critical network services for hybrid, multi-cloud environments. NIOS-X as a Service combines operational efficiency with exceptional reliability by leveraging public cloud points of presence across multiple availability zones and regions worldwide. NIOS-X as a Service is a new deployment model that replaces the need for physical or virtual appliances and the resources required to manage them, with the ease and efficiency of infrastructure-free delivery.

NIOS-X DEPLOYMENT OPTIONS

Infoblox offers a complete line of flexible options for deploying critical network services, including:

- NIOS-X as a Service, the industry's most advanced solution for hybrid, multi-cloud environments
- NIOS-X Virtual Servers, scalable solutions for virtual and container-based deployments
- NIOS-X Physical Servers, hardware-based alternatives when a physical solution is preferred

NIOS-X as a Service saves time as critical network services are configured once and delivered centrally throughout the infrastructure with full support for public clouds, data centers and distributed sites. With NIOS-X as a Service, organizations struggling to keep pace with increasing demands can leverage the resource-saving benefits of infrastructure-free delivery for greater agility, speed and operational efficiency. NIOS-X as a Service also enables organizations to deliver modern alternatives to on-premises services (e.g., Microsoft DNS), consolidate multiple cloud-native DNS deployments and optimize the delivery of network services for a growing number of distributed sites.

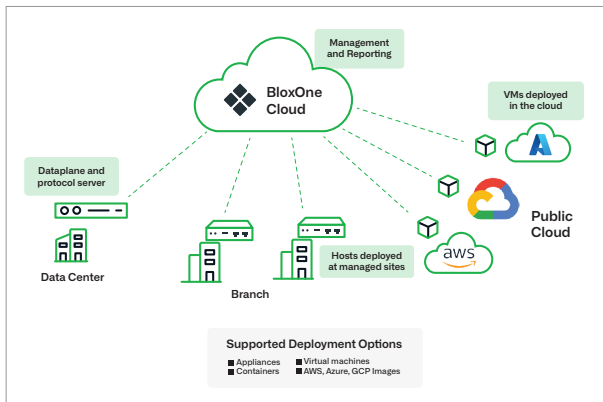


Figure 1: Traditional SaaS management

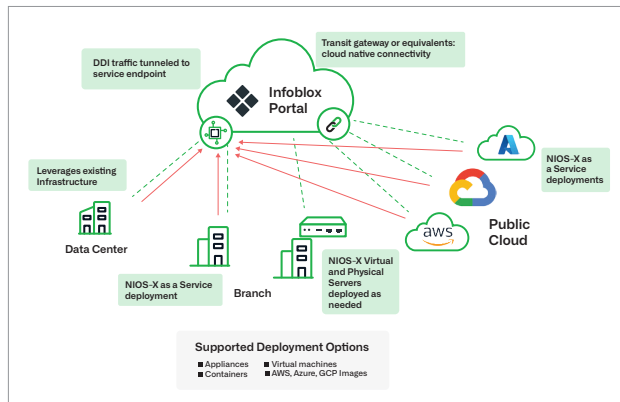


Figure 2: NIOS-X as a Service management

NIOS-X VIRTUAL SERVERS

NIOS-X Virtual Servers are scalable solutions for virtual and container-based deployments to meet the needs of changing business environments. To simplify planning, site tiers are suggested below, followed by reference specifications to approximate performance targets.*

Note that in the table below, the cache hit ratio (CHR) measures how many requests a cache can deliver successfully from its cache storage compared to how many requests it receives.

Recommended For	Small Branches	Medium Branches	Large Branches
DNS queries per second (QPS)	160 @ 0% CHR, 681 @ 85% CHR, 1.6K @ 100% CHR	700 @ 0% CHR, 2.9K @ 85% CHR, 7K @ 100% CHR	3.5K @ 0% CHR, 14.8K @ 85% CHR, 35K @ 100% CHR
DHCP leases per second (LPS)*	25	300	400

* These values are for reference only, representing testing results in a controlled environment for individual protocol services. Enabling additional protocols, services, cache hit ratio for recursive DNS and customer environment variables will adversely affect performance. Please contact your local Infoblox Solutions Architect to help design and size a solution for your production environment.

NIOS-X PHYSICAL SERVERS

NIOS-X Physical Servers are designed to serve branch offices, remote locations and retail environments. NIOS-X Physical Servers are a viable alternative to virtual servers and are ideal for use cases like local survivability, which requires local on-premises servers or hosts to maintain critical business operations if primary connections to data centers are lost.

Recommended For	Small Branches	Medium Branches	Large Branches
CPU	Four-core Intel Celeron @ 2GHz	Four-core Intel Atom @ 2.2GHz	16-core Intel Atom @ 2GHz
DRAM	8GB	8GB	32GB
Storage	64GB	120GB	240GB
Ports	2 x 1G	6 x 1G, 2 x 10G	6 x 1G, 2 x 10G

Infoblox is not liable for any compatibility or performance issues resulting from systems configured outside the specifications above. Additionally, Infoblox does not guarantee performance based on the system configuration, as procurement and system maintenance are the customer's responsibility. To the extent that Infoblox processes personal data on behalf of the customer to provide the Services, the [Data Processing Addendum](#) ("DPA") shall apply. The definition of Personal Data is also included in the DPA.

NIOS-X B105

The NIOS-X B105 Physical Server provides an optional hardware-based alternative to virtual or container-based appliances. The NIOS-X B105 does not include any software license entitlements, and software must be purchased separately.



Packaging

Model	Description	SKU
B105	Physical appliance (optional)	B1-105-HW-AC

Specifications

Feature	Description
CPU	Four-core, 2GHz
Memory	8GB
Storage	64GB SSD
Performance	DNS: 160 QPS @ 0% CHR, 681 QPS @ 85% CHR, 1.6K QPS @ 100% CHR DHCP: 25 LPS

Feature	Description
Power supply	Power type: ATX power supply voltage: +12 VDC connector: DC jack with lock Power consumption: 7.36W (idle) 11.43W (full load) Power adapter: AC to DC, AC 90 to 240 VAC input, DC 12V/3A 36W output
LEDs	Assignments: amber LED for SSD storage; green LED for power
Dimensions	6"x 4"x 2" (15.24 cm x 10.16 cm x 5.08 cm)
Weight	3.5 lbs (1.589 kg)
Ports	Two network ports: LAN1 and LAN2. Either of these two ports may be configured to connect to the network. All other ports are unused.
Environmental	Operating temperature: 41 F to 95 F (5 C to 35 C) Storage temperature: -4 F to 158 F (-20 C to 70 C), Operating relative humidity: 0% to 90% (non-condensing) Environmental certification: EMC CE/FCC, Class A, WEEE and RoHS
Certification and regulatory	CE, UL, CCC, KCC, RoM, BSMI and EAC U.S., Europe, China, Mexico, India, Taiwan, Korea, Russia, Argentina and Australia
Support	One-year hardware warranty

NIOS-X B212

The NIOS-X B212 Physical Server provides a higher capacity optional hardware-based alternative to virtual or container-based appliances. The NIOS-X B105 does not include any software license entitlements, and software must be purchased separately.



Packaging

Model	Description	SKU
B212	Physical appliance (optional)	B1-212-HW-AC

Specifications

Feature	Description
CPU	Four-core, 2GHz
Memory	8GB DDR4
Storage	120GB M.2 SSD with 16GB eMMC Flash
Performance	DNS: 700 QPS @ 0% CHR, 2.9K QPS @ 85% CHR, 7K QPS @ 100% CHR DHCP: 300 LPS
Power supply	Power type: external power adapter Power consumption: 20W (typical) 30W (max) Power adapter: AC to DC, AC 100 to 240 VAC 50-60 Hz
TPM	2.0
Dimensions	8.1" x 7.9" x 2.0" (20.8 cm x 20.2 cm x 5.2 cm)
Weight	3.5 lbs (1.589 kg)
Ports	6 x 1G copper, 2 x 10G SFP+, 2 x USB 3.0 Type A used for recovery All other ports are unused
Environmental	Operating temperature: 32 F to 104 F (0 C to 40 C) Storage temperature: -40 F to 158 F (-40 C to 70 C). Operating relative humidity: 5% to 85% (non-condensing) Environmental certification: EMC CE/FCC, Class A, WEEE and RoHS
Certification and regulatory	CE, UL, KCC, BSMI and EAC U.S., Europe, Mexico, India, Taiwan, Korea, Russia, Argentina and Australia
Support	One-year hardware warranty

NIOS-X SERVER OPTIONS LICENSING

NIOS-X as a Server and NIOS-X Virtual and NIOS-X Physical Servers utilize a token-based licensing model, which involves purchasing a certain number of tokens to enable specific features or services. Three token types—management, reporting and server—allow organizations to employ any combination of services and deployment models based on business requirements. Additional tokens are available for purchase as needed, and enterprise-wide token allocation and utilization metrics are continuously monitored and available in the Infoblox Portal.

NIOS-X SERVER OPTIONS OFFER STRUCTURE

<p>Management Tokens</p> <table border="1"> <tbody> <tr> <td data-bbox="147 604 506 667"> <p>Universal DNS Management™ Per # of DNS objects</p> </td> <td data-bbox="522 604 846 667"> <p>Universal DHCP Management™ Per # of DNS objects and IPs</p> </td> <td data-bbox="857 604 1013 743" rowspan="2" style="background-color: #00a651; color: white; text-align: center; vertical-align: middle;">MANDATORY</td> </tr> <tr> <td data-bbox="147 688 506 751"> <p>Universal IP Address Management™ Per # of IPAM objects and IPs</p> </td> <td data-bbox="522 688 846 751"> <p>Universal Asset Insights™ Per # of asset</p> </td> </tr> </tbody> </table>	<p>Universal DNS Management™ Per # of DNS objects</p>	<p>Universal DHCP Management™ Per # of DNS objects and IPs</p>	MANDATORY	<p>Universal IP Address Management™ Per # of IPAM objects and IPs</p>	<p>Universal Asset Insights™ Per # of asset</p>	<ul style="list-style-type: none"> • Mandatory for all management • Price varies by number and object type • Can be purchased and deployed with Infoblox NIOS or Infoblox Threat Defense
<p>Universal DNS Management™ Per # of DNS objects</p>	<p>Universal DHCP Management™ Per # of DNS objects and IPs</p>	MANDATORY				
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<p>Reporting Tokens</p> <table border="1"> <tbody> <tr> <td data-bbox="147 852 490 915"> <p>Reporting Per million logs per month</p> </td> <td data-bbox="506 852 846 915"> <p>Ecosystem Per million log events per month</p> </td> <td data-bbox="857 852 1013 915" style="background-color: #444; color: white; text-align: center; vertical-align: middle;">OPTIONAL</td> </tr> </tbody> </table>	<p>Reporting Per million logs per month</p>	<p>Ecosystem Per million log events per month</p>	OPTIONAL	<ul style="list-style-type: none"> • Optional for reporting and ecosystem • Price varies by number of events per month 		
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<p>Server Tokens</p> <table border="1"> <tbody> <tr> <td data-bbox="147 1022 490 1096"> <p>NIOS-X Virtual Servers Per virtual server sized by performance (QPS, LPS) and capacity (objects)</p> </td> <td data-bbox="506 1022 846 1096"> <p>NIOS-X as a Service Per cloud service sized by performance (QPS, LPS) and capacity (objects)</p> </td> <td data-bbox="857 1022 1013 1096" style="background-color: #444; color: white; text-align: center; vertical-align: middle;">OPTIONAL</td> </tr> </tbody> </table>	<p>NIOS-X Virtual Servers Per virtual server sized by performance (QPS, LPS) and capacity (objects)</p>	<p>NIOS-X as a Service Per cloud service sized by performance (QPS, LPS) and capacity (objects)</p>	OPTIONAL	<ul style="list-style-type: none"> • Optional for server deployments • Price varies by performance and capacity • Available as virtual and as-a-service options 		
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Table 1: Infoblox token-based licensing offer structure



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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