

BloxOne® On-prem host options

ON-PREM HOST PERFORMANCE REFERENCE GUIDE

BloxOne offers flexible scalability to meet your changing business needs from the smallest to the largest locations. To simplify planning, site tiers are suggested below, followed by reference specifications to approximate these performance targets*.

Note that in the table below, 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	2.4K @ 0% CHR, 6.8K @ 85% CHR, 8.8K @ 100% CHR
DHCP Leases Per Second (LPS)*	25	300	400

*The stated performance numbers are for reference only. They represent the results of lab testing in a controlled environment focused on individual protocol services. Enabling additional protocols, services, cache hit ratio for recursive DNS, and customer environment variables will affect performance. To design and size a solution for a production environment, please contact your local Infoblox Systems Engineer.

INTRODUCTION

On-prem hosts are required to run BloxOne software and are available in virtual and pre-configured hardware options. You can download an installer package for VMware or for a Docker container. Virtual deployment allows you to run BloxOne cost effectively on your equipment with the greatest flexibility.

For sites that require a dedicated BloxOne hardware solution, or if hardware is not already present, Infoblox has tested and certified several common server configurations that can be obtained through authorized Infoblox partners. This approach provides the highest level of reliability and simplifies supportability.

Infoblox also offers the BloxOne DDI B105 purpose-built appliance that, when combined with the BloxOne DDI software, offers the most robust and reliable DDI services for applications including retailers, school districts or any edge office location.

REFERENCE HARDWARE SPECIFICATIONS

Recommended for	Small Branches	Medium Branches	Large Branches
CPU	4-core Intel Celeron @ 2GHz	4-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

If the customer’s system does not meet the configuration settings above, this may create compatibility issues with BloxOne’s expected performance, and Infoblox is not liable for any issues as a result of such non-conformance with required specifications. Additionally, Infoblox does not guarantee performance based on the system configuration. Procurement is the responsibility of the customer, and maintenance of the system is the customer’s responsibility. To the extent that Infoblox processes Personal Data on behalf of the Customer for provision of the Services, the [Data Processing Addendum](#) (“DPA”) shall apply. Personal Data is defined in the DPA.

BLOXONE DDI B105 APPLIANCE

The B105 appliance is designed to serve branch offices, remote locations and retail environments. A tabletop appliance, B105 provides an optional hardware-based alternative for Infoblox BloxOne software deployments that run on virtual and container-based appliances. The B105 appliance does not include any software license entitlements. Software must be purchased separately.



Feature	Description
CPU	4-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
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

Feature	Description
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	2 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

PACKAGING

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



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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