Exablox
OneBlox 4312 Appliance

Scale-out NAS Built on Revolutionary Object-based Storage

Product Highlights

Powerful: The scale-out object-based file system enables non-disruptive capacity and performance expansion with zero configuration. Additionally, its inline deduplication and compression for primary storage and disk-based backup maximizes storage utilization without impacting performance.

Simple: The secure multi-tenant cloud-based management service enables organizations and managed service providers (MSPs) to manage Exablox storage deployments with minimal effort from anywhere with an Internet connection, and eliminates on-premises software requirements.

Protected: The always-on continuous data protection (CDP) capability, that can be defined on per share basis, enables fine-grained data recovery. Its real-time replication enables protection against multiple drive failures and disaster recovery.
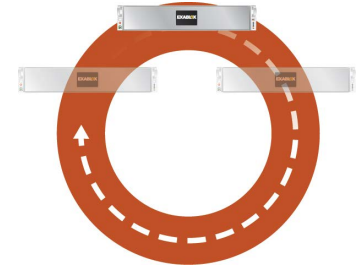

Introduction

Exablox is reimagining storage with OneBlox, the industry's first scale-out object-based appliance that is accessible with NFS and SMB network protocols for organizations of all sizes. Now, companies can utilize this affordable cloud-managed solution with leading edge enterprise features, including inline deduplication, compression, continuous data protection and zero-configuration storage expansion.

Exablox's patent pending architecture solves businesses' common storage pain points: complicated installation, cumbersome storage management, lack of data security and forklift upgrades. Without the shackles of a legacy storage architecture, Exablox's clean-sheet approach combines the OneBlox appliance with OneSystem, an elegant multi-tenant cloud-based management service.

Product Features

Scale-Out Architecture

OneBlox employs a seamless scale-out ring architecture supporting multiple OneBlox appliances presenting a single global file system. A ring may consist of one or multiple OneBlox, scaling from a few TBs to nearly 700TBs. With the OneBlox architecture enabling enterprise features such as global inline deduplication, compression and continuous data protection, organizations no longer have to allocate extraneous storage capacity dedicated solely for data protection. As business storage requirements change, OneBlox is extremely agile; simply add any number of disk drives, at any time, and in any capacity granularity to meet your storage requirements. OneBlox simply grows the global file system with zero configuration and no application downtime.

Cloud-based Management

OneSystem is a secure cloud-based management platform that proactively monitors, reports, and manages OneBlox in any location and from any browser. Eliminating the need for dedicated servers and time consuming software upgrades, simply login and gain the necessary insight into your storage infrastructure. Whether you have responsibility for a single location or multiple locations, OneSystem's administration capabilities empower you to manage the entire storage infrastructure. Simply and securely.

Dynamic Growth

Bring your own drives. No RAID, no LUNs, no volumes. OneBlox delivers the flexibility for organizations to mix-and-match drive types (SATA, SAS) and capacity (1-8TB) within the same OneBlox and within a OneBlox ring. Purchase exactly the capacity your organization needs at the beginning and then at any time in the future, increase capacity by mixing and matching any number of additional drives. In two minutes and with zero configuration, OneBlox automatically pools the new storage within the existing global file system. No disruption to applications or users. No configuration settings to complete. No mouse clicks. No command line entries. No storage PhD required. Combined with OneBlox's powerful inline deduplication, storage waste is minimized and organizations are able to maximize primary storage utilization.

Agile and Affordable

The OneBlox agility to add storage at any time comes with the additional benefit of delivering significant cost savings. Exablox's bring your own drive philosophy treats commodity disk drives as commodities. Accordingly, every organization can purchase drives at retail pricing and use any type and capacity drive within OneBlox. Gartner Group says that disk drives can account for 50% of the storage systems hardware costs. Avoiding the 5-10x markup from legacy storage vendors, this quickly results up to a 10x cost savings compared to other storage solutions.

Zero Configuration

OneBlox can be installed and available to users in less than five minutes with zero configuration. Simply insert at least three drives, plug in Ethernet, power, and turn it on. It's that easy. OneBlox removes the burden of application downtime and configuration changes for nearly every storage management task, including replacing failed drives. Need to add more storage? Simply add drives and the capacity is dynamically added to the same global file system. Need to add availability or performance? With no interruption to applications or users, additional OneBlox can be added and automatically configured, enabling organizations non-disruptive scalability with their business.

5 min

Continuous Data Protection

OneBlox's continuous data protection ensures that all of the information stored is fully protected. By taking continuous and unlimited snapshots of information written to OneBlox, every file can be easily recovered in the event of data corruption, deletion, or other errors. In fact, end users can recover their own information, simply by navigating through Mac Finder or Windows Explorer. No need to restore information from last night's backup, simply browse and recover.
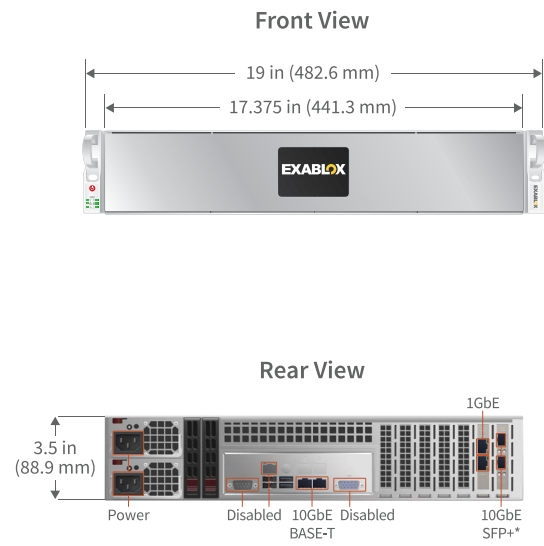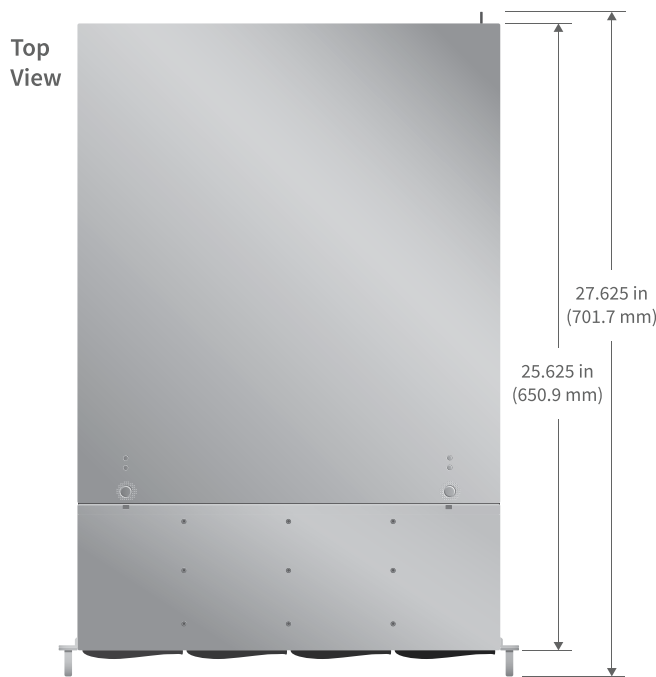
Always-on Information

With its real-time replication, information stored in a OneBlox ring is fully protected. By avoiding legacy RAID technologies, OneBlox is able to transparently replicate and redistribute the data across multiple drives and OneBlox to protect against two drive or OneBlox failures. Additionally, with its advanced architecture, information is protected against an entire ring failure when replication over wide-area distances is implemented. OneBlox grows with your business' data protection requirements without requiring costly downtime, reconfiguration, or forklift upgrades.

OneBlox 4312 Technical Specifications

System Input Requirements	100-240 V AC, 10.7 – 4.2A max
Power Supply	Dual output power 920W; output voltages +12V (75A), +5Vsb (4A)
Thermal Rating	900 BTU/hr, 270W (typical)
Weight (empty, no disks)	52 lb. (23.6 kg)
Space Requirements (W x H x D)	19 x 3.5 x 27.625 in. (482.6 x 88.9 x 701.7 mm); 2 rack units
Hard Drive Bays	12 x 3.5" drive slots, hot swappable
Hard Drive Type	3.5" SATA II and III (3 Gb/s and 6 Gb/s) / 3.5" SAS (6Gb/s and 12 Gb/s)
Max Raw Capacity	96 TB (12 disks rated at 8 TB each)
Operating Temperature and Humidity	10° C to 35° C (50° F to 95° F); 8% to 90% relative humidity, non-condensing
Non-operating Temperature and Humidity	-40° C to 60° C (-40° F to 140° F); 5% to 95% relative humidity, non-condensing
Operating Acoustic Noise	56.5 dBA sound pressure (LpA) at normal operating conditions (at 22ûC and at sea level)
Cooling	Three variable-speed fans
File Service and Other Protocol Support	SMB (1.0, 2.0, 2.1, 3.0); NFS v3
Gigabit Ethernet Ports	2 x 10GbE BASE-T; 2 x 1 GbE BASE-T; 2 x 10GbE SFP+ (optional)
USB Ports	2 x USB 2.0; 2 x USB 3.0
Virtual LCD Screen	Accessible through web browser
LED Lights	Blue and red activity and status LEDs on each drive bay door
Electromagnetic Emission and Compatibility	FCC Class A, EN 55022 Class A, EN 61000-3-2/-3- 3, CISPR 22 Class A
Safety and Quality	CSA/EN/IEC/UL 60950-1 Compliant, UL or CSA Listed (USA and Canada), CE Marking (Europe)

Top View

27.625 in (701.7 mm)

25.625 in (650.9 mm)

Front View

19 in (482.6 mm)

17.375 in (441.3 mm)

Rear View

3.5 in (88.9 mm)

1GbE

Power   Disabled   10GbE   Disabled   10GbE
                        BASE-T   SFP+*

* 10GbE SFP+ is an optional configuration for the OneBlox 4312

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