

# Infoblox DNS and IPAM for Microsoft Azure

## *Industry-Leading Virtualized Network Services for Azure*

### BENEFITS

#### Gain Faster DNS for Azure

Enhance Azure application support with faster and more reliable DNS

#### Expand Performance and Reliability

Increase performance and ensure uptime with DNS and IPAM deployment options for hybrid cloud, public cloud and fault tolerance

#### Enable Dynamic Security Policies

Connect with Azure AD to provide identity data and dynamic security policies for your users and groups

#### Improve Consistency

Ensure DNS and IPAM consistency across Azure and traditional networks

#### Lower Costs

Reduce total cost of ownership (TCO) by decreasing hardware, power, cooling and real-estate costs

#### Use Eco-Friendly Solutions

Save power and protect the environment by reducing the number of servers and appliances

#### Speed Processes with Easy Deployment

Deploy easily using your standard virtualization practices

#### Extend Flexibility

Combine physical appliance and multiple virtual appliance options into a single deployment

### The Challenge

Organizations are modernizing their networks to gain the benefits of cloud architecture—lower costs, improved agility and flexibility, enhanced security and global access. Yet many network administrators continue to struggle with manual, labor-intensive, error-prone processes to manage their IP addresses (IPAM) and DNS operations. Legacy tools and freeware often present complex architecture and deployment challenges. Because these tools lack DNS configuration change detection, verification capabilities and audit tools, tasks such as asset discovery, Active Directory replication, authentication, file processing and printing are all negatively impacted. These challenges mean poor visibility, inefficient operations, conflicts and outages, compromised security and the inability to meet compliance and audit requirements.

### The Solution

#### Leverage Infoblox DNS and IPAM on Microsoft Azure

Infoblox DNS and IPAM for Azure extends its industry leading software, fully integrated with the Infoblox Grid, as a virtual NIOS (vNIOS) or cloud platform appliance. The virtual machine (VM) option delivers centralized and distributed DNS, IPAM, FTP, TFTP and HTTP protocol services.

#### Add Flexibility and Scalability for Azure Stack

Organizations can operate virtual appliances both on Azure and Azure Stack. Within Azure Stack, teams can run Infoblox DNS and IPAM, DHCP services and vDiscovery for detecting resources and cloud endpoints. Azure Stack Government is also supported. This on-premises cloud integration offers the ultimate flexibility and scalability for Azure deployments.

#### Improve IPAM Visibility and Control for Public Cloud Instances

Infoblox IPAM provides advanced network discovery (including virtual resources), network and IP mapping and advanced filtering through innovative features such as Smart Folders. An easy-to-use graphical user interface supplies template-based configuration, automated error prevention and real-time visibility for monitoring and reporting. Improve your detection and response time with IPAM visibility that extends from traditional networks to hybrid cloud deployments.

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## KEY CAPABILITIES

### Discovery and IPAM Sync

Engage accurate, automated, vendor-agnostic discovery, visibility and multi-grid IPAM sync and mass conversion of IP addresses to managed assets

### Virtual and Cloud Appliances

Speed time to value with full Infoblox DNS and IPAM integration in public or hybrid clouds

### Single Control Plane

Gain visibility into your network address space via a single control plane

### Flexible DNS Deployment

Develop your network with external or internal DNS deployment options

### Better App Performance

Deliver better user experiences with faster DNS for Azure applications

### Resiliency

Ensure resiliency with fault tolerance and support for disaster recovery

### Threat Detection and Remediation

Integrate with BloxOne Threat Defense to detect, block and resolve security threats

### Adaptive Defense

Engage Azure Sentinel SIEM and SOAR for contextual data and faster security response

### Network Traffic Management

Use DNS Traffic Control (DTC) to manage traffic, deploy and keep apps performing on public clouds

### Network Visibility and Intel

Get alerts, historical and current data and analytics for better network control

### Easy Updates

Simplify operations with one-touch software upgrades

## Increase Resilience and Availability

Infoblox Virtual Appliance Software for Azure has all the redundancy, high-availability, access control and disaster-recovery features of Infoblox hardware appliances. Users gain the proven reliability and uptime benefits of an Infoblox solution while taking advantage of the cost benefits of Azure cloud offerings. With a single authoritative IPAM database across physical and virtual appliances, all networking address data and interactions for all appliances in the Grid are in a single place, current and available.

## Extend Security to Detect, Block and Remediate Threats

Infoblox DNS and IPAM as a virtual appliance for Azure also supports BloxOne® Threat Defense, Infoblox's foundational hybrid security solution. BloxOne Threat Defense allows organizations to detect and block modern malware, C&C, data exfiltration and DGA threats, consolidate and distribute threat intelligence to the entire ecosystem and improve SOC efficiency through automation and ecosystem integrations.

## Engage Azure Sentinel for SIEM and SOAR for Adaptive Defense

Maximize the rich DNS query data generated by BloxOne with Azure Sentinel, Microsoft's cloud SIEM and SOAR solution. Connect your BloxOne data to Sentinel in a single click to view raw DNS logs in an easy-to-read form. Visualize data within interactable dashboards and detect and investigate anomalies and more using out-of-box, customizable Sentinel tools specifically developed and tailored for BloxOne.

## Delegate DNS and IPAM Tasks to Relevant Owners

With Infoblox tools, the network team can collaborate effectively with server and data center teams across traditional and virtual resources. Infoblox delivers secure role-based administration and auditing capabilities to allow effective delegation of responsibilities in a virtualized environment.

## Reduce Rack Space, Power and Cooling Requirements

By leveraging the Azure Public Cloud, Infoblox Virtual Appliance Software runs on public cloud resources that save equipment rack space and reduce power and cooling costs. This approach enables organizations to lower their TCO and build an environment-friendly infrastructure.

## Manage Network Traffic for App Uptime, Performance, Deployment and Disaster Recovery

DNS Traffic Control (DTC) is an affordable, integrated DNS global server load balancing (GSLB) solution that improves the end-user experience, simplifies global traffic management and reduces capital and operating expenses. It delivers business continuity, reliable application uptime, high availability (HA), resiliency and disaster recovery (DR) by distributing network

traffic across geo-diverse, on-premises, public and hybrid cloud environments for e-commerce, portals, web and internal business-critical applications. DTC integrates authoritative IPAM with DNS and GSLB to intelligently direct user traffic to optimal servers. It's scalable to meet changing data volumes and business needs and integrates with Infoblox Reporting and Analytics, making DTC an essential tool for fast, easy network traffic management on public clouds.

### Gain Network Intel through Trending, Reporting and Analysis

Infoblox Reporting and Analytics leverages our unique platform for real-time views and management of DNS, IPAM and network services security. You can see and access the wealth of business-impacting network data with instant alerts, historical and predictive reporting for on-demand tracking, audit, forecasting and control. Integrated with our Grid technology, Reporting and Analytics enhances real-time management of networks and network services through Splunk, an extensive, customizable and historical reporting and visualization engine. Data from Virtual Appliance Software for Azure integrates with Infoblox Reporting and Analytics so you can use the latest network insights to better manage your network.

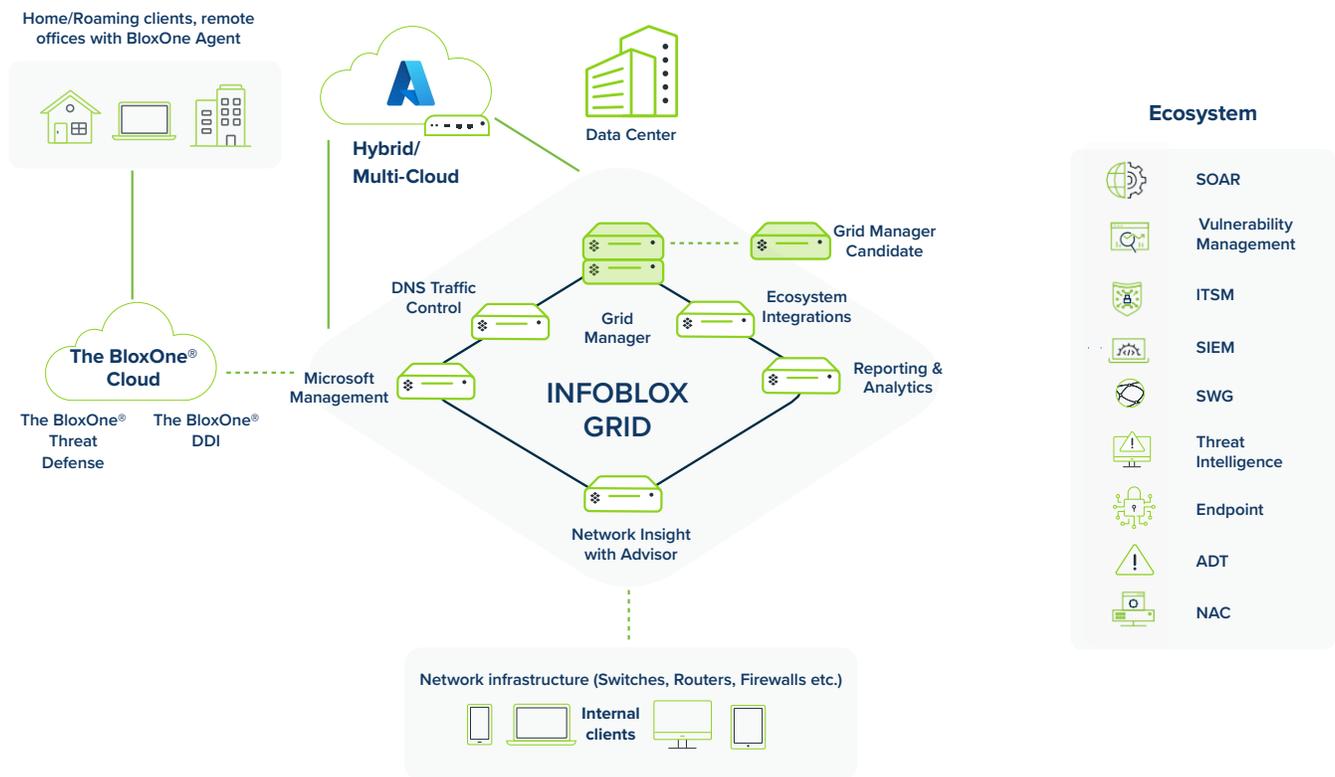


Figure 1: Infoblox virtualized network services for Azure deployed in a hybrid-cloud environment

## Infoblox DNS and IPAM Virtual Appliance Options for Microsoft Azure

### Enterprise Platform

Appliance Options	Role	Azure Shape	Interfaces	DNS Queries Per Second*
Infoblox TE-v825	Grid Manager or Member	DS11_v2 Standard	2 interfaces	22,500
Infoblox TE-v1425	Grid Manager or Member	DS12_v2 Standard	2 interfaces	75,000
Infoblox TE-v2225	Grid Manager or Member	DS13_v2 Standard	2 interfaces	200,000

### DNS Security Is Key to Stopping Ransomware and Data Theft

Appliance Options	Role	Azure Shape	Interfaces	VM Capacity	API Calls Per Minute	DNS Queries Per Second*
Infoblox CP-v805	Grid Member	DS11_v2 Standard	2 interfaces	1,000	10	4,000
Infoblox CP-v1405	Grid Member	DS12_v2 Standard	2 interfaces	5,000	50	30,000
Infoblox CP-v2205	Grid Member	DS13_v2 Standard	2 interfaces	20,000	200	143,000

*\*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 solution architect.*

### Contact Us

For more information about Infoblox DNS, IPAM and other network services for Azure, visit our website or contact your Infoblox sales representative.



Infoblox is the leader in modern, cloud-first networking and security services. Through extensive integrations, its solutions empower organizations to realize the full advantages of cloud networking today, while maximizing their existing infrastructure investments. Infoblox has over 12,000 customers, including 70 percent of the Fortune 500.

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