

E-BOOK

POWERING THE HYBRID WORKPLACE USING A MODERN SECURE NETWORK



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WORK FROM ANYWHERE IS HERE TO STAY, AND BUSINESS NEED TO MODERNIZE THEIR NETWORKS TO ADAPT

The pandemic has accelerated workplace modernizations, including adoption of the cloud and SaaS, to create a hybrid workplace—one that provides flexibility without compromising business goals.

According to Gartner¹, over 45 percent of IT spending will have shifted to the cloud by 2024 (up from 33 percent in 2020), with projected revenue for SaaS offerings estimated to rise to around \$370 billion over the same timeframe. Broader use of cloud and SaaS applications is driving greater investment in technologies that improve productivity, data security and continuous business operations. Networks are shifting from a traditional architecture focused on headquarters and the data center to a distributed, edge-to-cloud architecture. To support the hybrid workplace, organizations need to be able to easily secure networks and unify management across cloud, HQ and branch locations.

What Are the Technologies That Can Help Organizations Power the Hybrid Workplace?

- Cloud-native architecture, platforms and tools make it possible to automate operations across the distributed enterprise and drive measurable efficiencies.
- Core networking services—DNS, DHCP and IPAM (DDI)—provide an effective, and already in-place, platform to simplify management across the data center, branch and home offices via the cloud.
- DDI is foundational to new networking and security paradigms, from SD-WAN and zero trust network access (ZTNA) to IoT device visibility and security.
- SaaS-based DNS-layer security is highly cost effective for protecting the edge and remote or work-from-home users, while on-premises DNS security can protect HQ locations and tightly integrate with other security tools for faster remediation.

OPPORTUNITY AND CHALLENGES

Bridging from traditional to modern is hard. While transformation is essential to stay competitive, streamline costs, increase revenue and adapt to changing customer needs, it also exposes companies to new operational and security risks.

Modernization Challenges

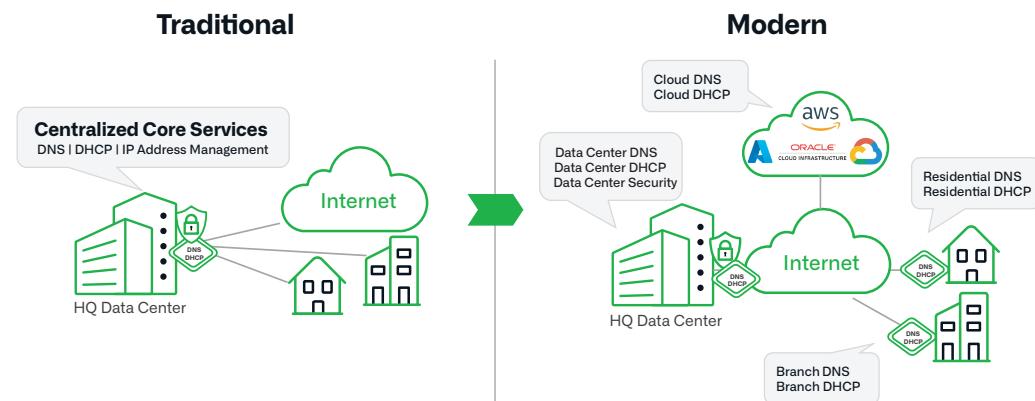


Figure 1: Supporting the work-from-anywhere model present challenges

Fragmented Control

- Disjointed foundations for core DDI networking elements: DNS, DHCP and IP address management
- Remote users and cloud workloads relying on disparate DHCP/DNS systems with little to no centralized control

Limited Visibility

- Work-from-home users invisible to enterprise inventory systems
- Difficult to manage devices in remote offices that have direct-to-Internet connections

Limited Security

- Data center security unable to cover remote users or remote branches
- Lack of centralized security and remediation capabilities

Challenges Yes, but Here's the Good News

No doubt, the challenges to implementing a fully modernized network are substantial. Business transformation is happening at a rapid pace, so you'll need infrastructure that performs with the velocity and scale to handle changing workplace needs—in modern as well as legacy environments.

If you're provisioning direct Internet access for all sites and all workers, reliability cannot take a back seat. And of course, you'll need to reduce risk from the increasing attack surfaces and evolving threats that have grown along with working from home and BYOD. The good news here, though, is that business modernization problems and an evolving risk environment don't necessarily require an entirely new tool set. There's a common technology denominator for all these scenarios—the services running right now at your network core: DNS, DHCP and IPAM, together known as DDI.

Build Your Modernization Foundation with Infoblox

Infoblox for the hybrid workplace allows companies to easily transition to any cloud platform and/or application, embed security everywhere to protect work from anywhere and improve the productivity of DevOps/SecOps.

Infoblox pioneered DDI as a stand-alone category beginning in 2000; we are now widely recognized as the most advanced player in the DNS space with a dominant position in the marketplace. Organizations engaged in network modernization and business transformation regard Infoblox as a highly valued technology partner precisely because we've worked with the world's leading cloud-first companies to create 100 percent cloud-native, cloud-managed DNS, DHCP and IPAM services. We have the broadest ecosystem integrations in the industry across cloud providers and security tool vendors. And the security solutions we offer are intrinsic, identifying and mitigating risks from the foundation up.

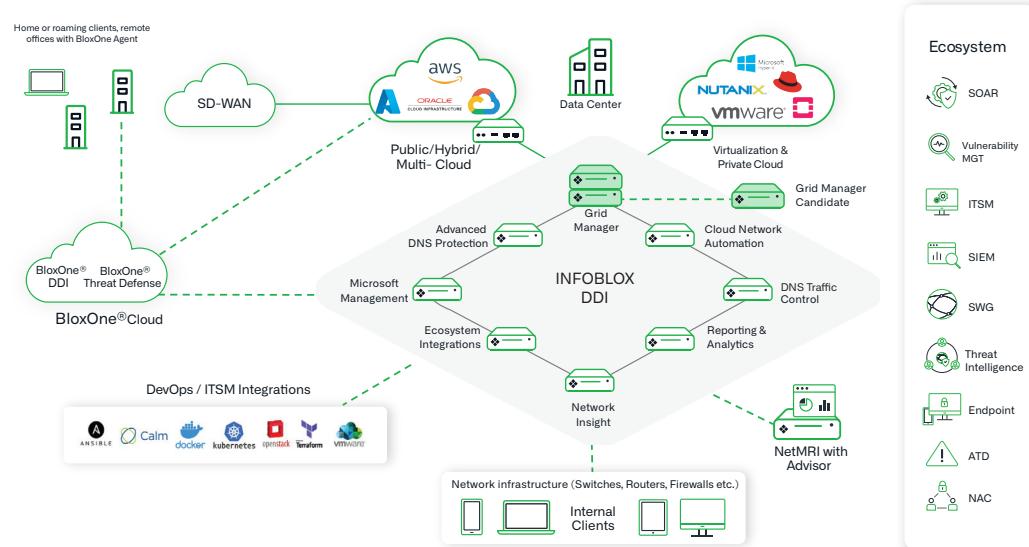


Figure 2: Infoblox powers the hybrid workplace

NIOS DDI: Rock-Solid Reliability

Today's legacy and multi-cloud complexities require reliable, real-time DDI to unify, secure, control and automate enterprise network infrastructures. Infoblox core network and value-added services give you fully automated discovery across any platform, along with the centralized visibility and the confidence you need to automate with a reliable, authoritative IPAM database. Infoblox helps you eliminate IP conflicts and outages, manage AD sites and services, visualize mapping of user/IP relationships and automate workflows to save time and money. Templated integrations and open, extensible APIs enable Dev/Net/SecOps teams to quickly leverage new and existing technologies, gain deep contextual ecosystem threat intel and orchestrate processes for faster speed to value. Affordable, easy-to-use traffic management ensures that global apps will be available with optimal performance backed by automated failover and disaster recovery. You'll be able to 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. Unlike any other provider, Infoblox delivers over two decades of core network services expertise and innovation, giving you full data center control, unified on-premises and multi-cloud services and the power you need to enable cloud-first agility.

Regain Control

Access full network discovery, visibility, intelligence and control of essential DDI services through a single control plane across data center and hybrid, multi-cloud environments.

Increase Automation

Automate IPAM, DNS and security ecosystem workflows with orchestration, templated integrations, and open APIs that enable Dev/Net/SecOps to leverage new and existing technologies, save time and money and achieve faster ROI.

Expand Visibility

View all devices across data center, public/private clouds and remote locations through a centralized console.

Extend Security

Secure on-premises and hybrid infrastructure with DNS as the first line of defense, providing protection for data center, remote locations and work-from-anywhere users.

Automating Networking and Security Using Integrations

Companies need to modernize networks to secure and enable the distributed workplace, support geo-diverse branch offices and save time and expenses. At the same time, today's networks need to ensure agility, automation and high performance at scale—from the data center to the network edge. Adopting virtualization, private cloud, public cloud, SaaS and IPv6 can help your business reach these goals. Infoblox continues to add new multi-cloud capabilities to its NIOS DDI platform and empower DevOps teams with extensive templated vNIOS IPAM integrations for orchestration and automation, vNIOS deployments on multi-cloud platforms, vNIOS supported hypervisors and rich APIs to support robust hybrid workflows, faster deployment and quicker speed to value.

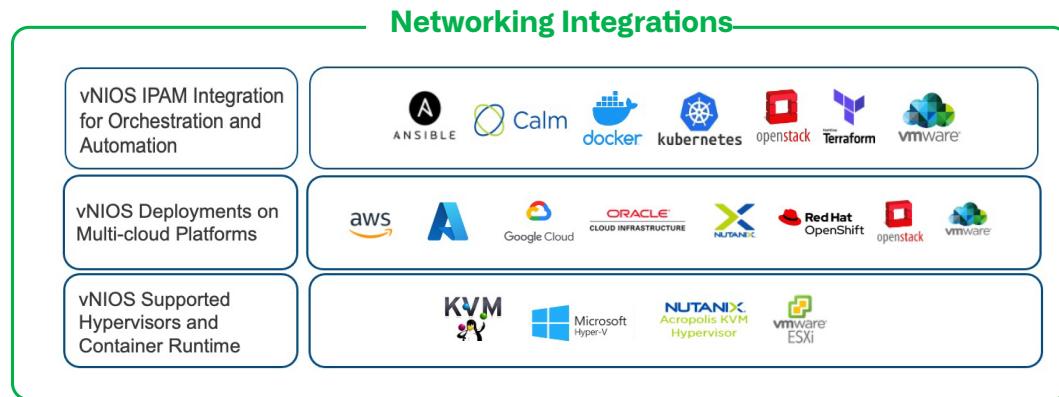


Figure 3: Infoblox vNIOS integrations

With vast on-premises and public/hybrid cloud enterprise environments, and a plethora of defense-in-depth tools, cybersecurity teams attempting to manually manage dozens of security tools and respond to hundreds or thousands of alerts every day are frequently overwhelmed. Infoblox offers a highly interconnected set of ecosystem integrations that enable security teams to eliminate silos, optimize their security orchestration, automation and response (SOAR) solutions and improve the ROI of their entire cybersecurity ecosystem. Infoblox solutions reduce the time and cost of threat response through enhanced automation and real-time, two-way data sharing across the ecosystem enabled by extensive APIs.

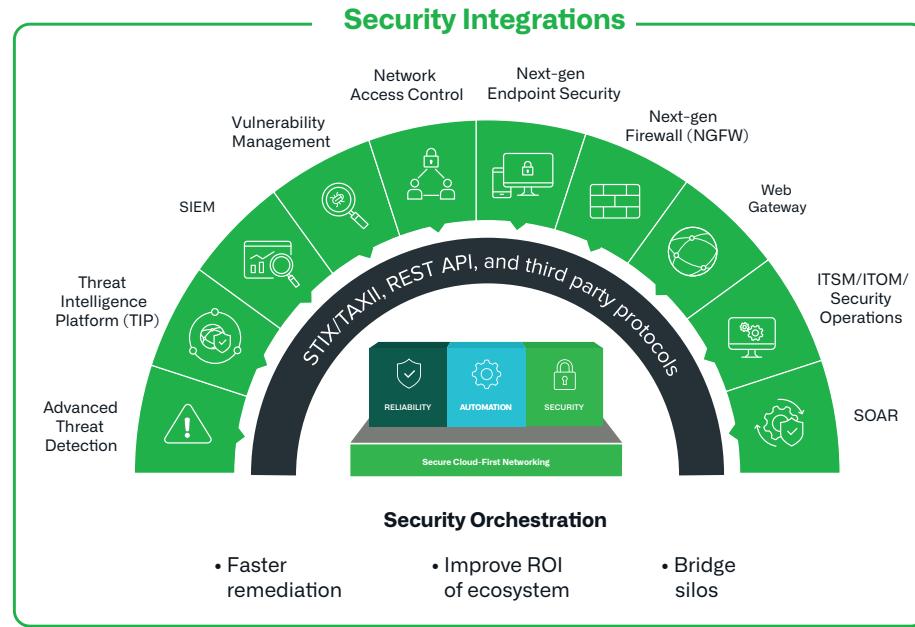


Figure 4: Infoblox security integrations

BloxOne® DDI: Future-Ready Capability

BloxOne DDI is the industry's first cloud-managed solution for core networking services. It greatly simplifies the management of application delivery and service provisioning at the edges of the network. BloxOne DDI consolidates the visibility, administration and control of distributed locations into a single interface. It also directs web and SaaS traffic to the closest service entry point in the cloud to improve performance and ensures survivability of DDI services in distributed locations in the event of lost connections to data centers. The solution uses an extensible microservices- and container-based platform—with a full complement of APIs—to simplify deployments, streamline operations and minimize overall total cost of ownership. Organizations deploying BloxOne DDI can:

- Centralize operations through a cloud-managed interface to automate DNS, DHCP and IP address management and policy control across multiple locations
- Enhance end-user networking experiences through local DNS resolution to ensure that all traffic goes to the closest application endpoints
- Ensure business continuity and minimal or zero downtime through local survivability at distributed locations
- Improve network reliability with seamless, uninterrupted operations through DHCP instance pairing with automatic failover available for each site

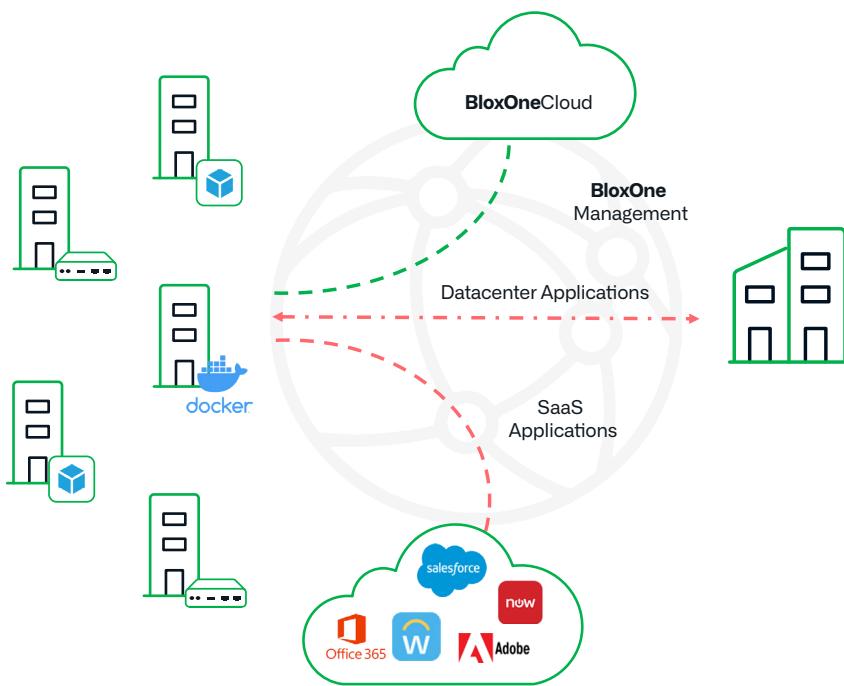


Figure 5: BloxOne DDI for the SaaS-enabled enterprise

BloxOne Threat Defense: Foundational Security Anywhere

The industry's most advanced cloud/hybrid network DNS security solution, BloxOne Threat Defense enables organizations undertaking network modernization to leverage foundational DDI functions in ways that increase overall network security. BloxOne Threat Defense maximizes brand protection by working with your existing defenses to protect your network. It automatically extends security to work-from-home users while enabling your digital imperatives including SD-WAN branches, IoT and the cloud. The solution integrates with existing SOAR and SIEM systems, so security teams can respond to security events faster and address threats before they can negatively impact devices and resources. Organizations deploying BloxOne Threat Defense can:

- Slash incident response times by two-thirds through real-time sharing of security event information
- Reduce the burden on strained perimeter defenses
- Manage incident review and response through a single pane of glass
- Increase productivity of threat analysts 3x through complete forensic data
- Block DNS-based data exfiltration and malware activity by shutting down communication channels used by malware, domain generation algorithms and dozens of other threats

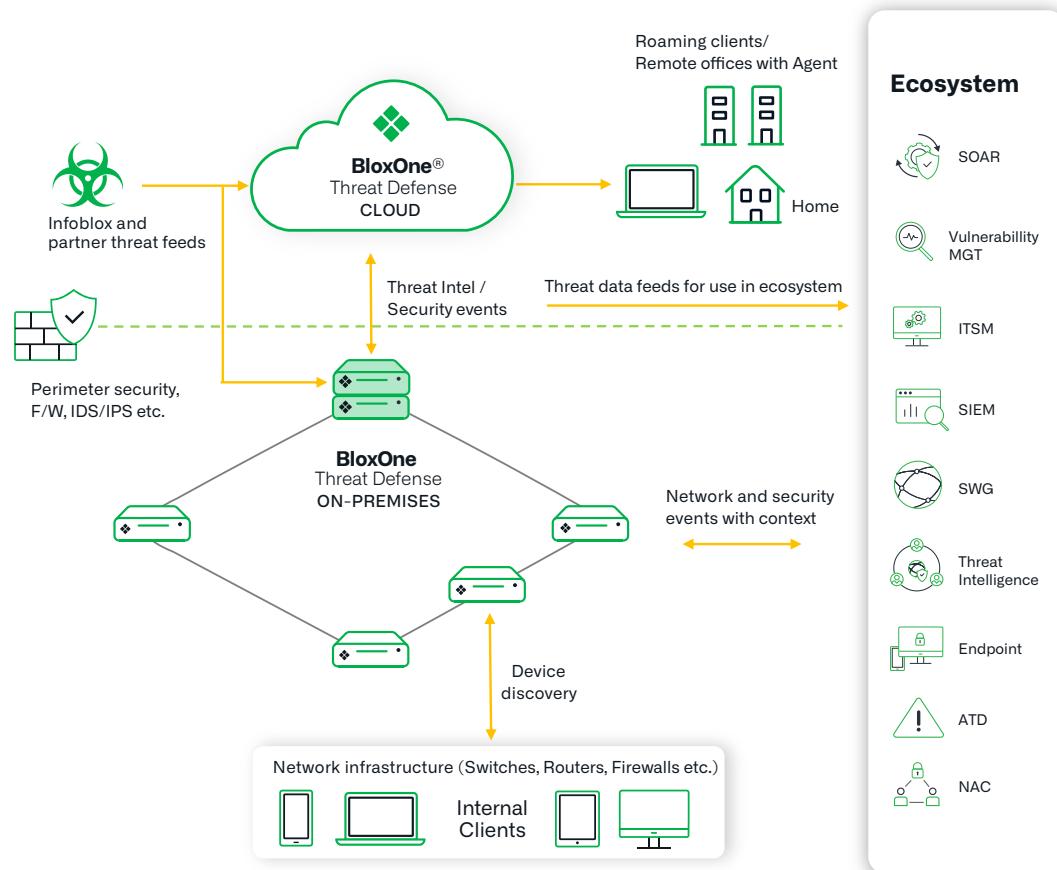


Figure 6: BloxOne Threat Defense foundational hybrid security

You Never Have to Compromise with Infoblox

Infoblox has been at the forefront of DNS, DHCP and IPAM advancements for over 20 years and is widely recognized as the DDI industry leader. Whether your strategy focuses on the data center, requires an on-premises, public/private cloud architecture, includes a cloud-managed initiative or is fully deployed in the cloud, Infoblox ensures that you'll never have to sacrifice network reliability to reach your goals. With the BloxOne Platform's modern, cloud-managed architecture, you can simplify network operations and DevOps for greater control, expanded visibility and extended security today and for the future. The BloxOne Platform is the realization of a vision that began almost five years ago: to create a flexible, cloud-native architecture built from the ground up to set the foundation for modern edge networking and the next generation of distributed cloud computing. For more information or to arrange a demo or download a free evaluation, contact Infoblox today.

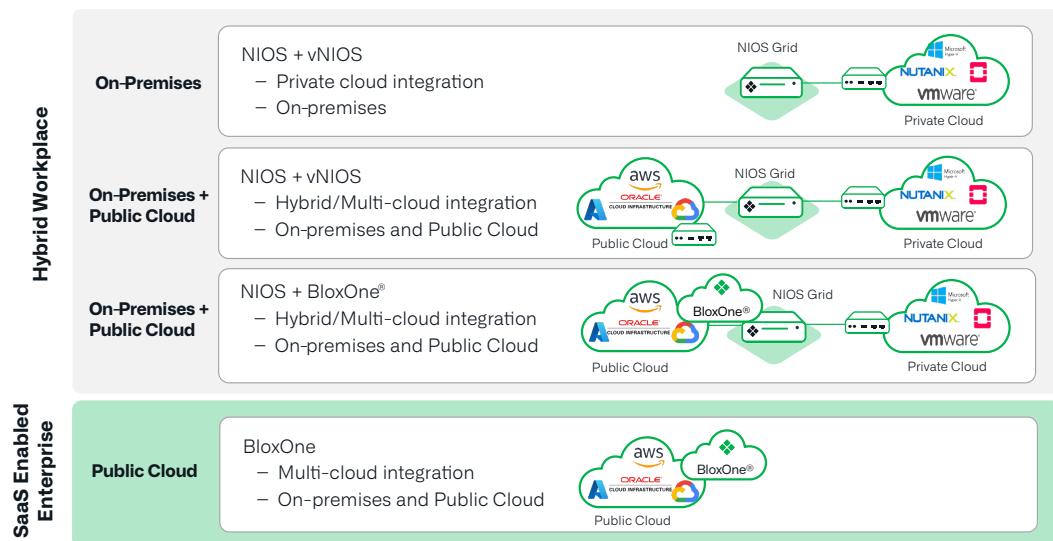


Figure 7: Infoblox flexibility to realize your business goals



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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