

Infoblox Universal DDI Management™

Unify critical network services for expanded visibility, automation and control in hybrid, multi-cloud environments

OVERVIEW & CHALLENGES

Businesses are rapidly adopting hybrid and multi-cloud IT environments, with more than 9 in 10 organizations now using multiple cloud providers.¹ However, as these environments expand, they become more complex to manage, monitor and scale—leading to frequent outages, costly service disruptions and ongoing barriers to digital transformation. That is especially true for foundational network services like DNS, DHCP and IP address management (IPAM) that keep every user and application connected.

Today, most IT teams juggle multiple dedicated DNS services in silos for onpremises networks, public and private clouds, external websites and more. This makes network operations far more complicated, increasing configuration errors—the leading cause of outages—which can cost businesses millions per hour of downtime.

Hybrid multi-cloud sprawl also impedes digital transformation. When every DNS provider uses its own APIs and workflows, automation stacks become fragile and likely to break at scale. This complexity makes new cloud and AI initiatives slower to implement, riskier and more expensive.

THE INFOBLOX SOLUTION

Infoblox, the industry leader in DDI, unifies the delivery and management of critical network services with Infoblox Universal DDI™ Management, the industry's first and most comprehensive SaaS solution purpose-built for hybrid, multi-cloud environments.

Universal DDI Management simplifies network operations, improving the speed and reliability of business-critical network services across hybrid, multi-cloud infrastructures. It is designed from the ground up to speed delivery, enable elastic scaling and eliminate the need for complex manual configurations across multiple cloud and on-premises systems. Teams can manage critical network services in Infoblox and Microsoft environments on-premises, as well as AWS, Microsoft Azure and Google Cloud, and even SaaS-hosted external DNS services—all from a single API and the Infoblox Portal. Universal DDI Management also includes the industry's only universal IPAM solution, empowering NetOps teams to ensure consistent, policy-driven network and IP address allocation—reducing errors and outages—without sacrificing CloudOps speed.

With these Universal DDI Management capabilities, businesses can work with the cloud and technology partners they prefer, reducing complex manual tasks and errors while enabling faster, more efficient network and cloud operations at scale. Also, unlike alternatives, Universal DDI Management fully integrates with the comprehensive Infoblox ecosystem, including Infoblox Security and an extensive array of value-added solutions, for greater agility and control while meeting the demands of today's expanding enterprises.

KEY CAPABILITIES

Unified DNS Zone Management

Reduce errors and outages by managing all public and private DNS zones—for on-premises networks, AWS, Microsoft Azure, Google Cloud and SaaS-hosted external DNS services—from a single interface and API.

Policy-Based Address Management

Prevent outage-causing IP conflicts by defining and controlling address blocks and routing realms for all onpremises and cloud tenants in one place.

Centralized NIOS Management

Simplify NIOS DDI deployments by managing all NIOS IPAM and DNS objects from a single source, eliminating the need for multiple interfaces.

Segmented Domain Management

Protect critical network services and align with evolving cybersecurity standards by tightly controlling administrative rights to infrastructure segments or compartments, and maintaining granular control of network objects, services and workloads.

UNIVERSAL DDI MANAGEMENT

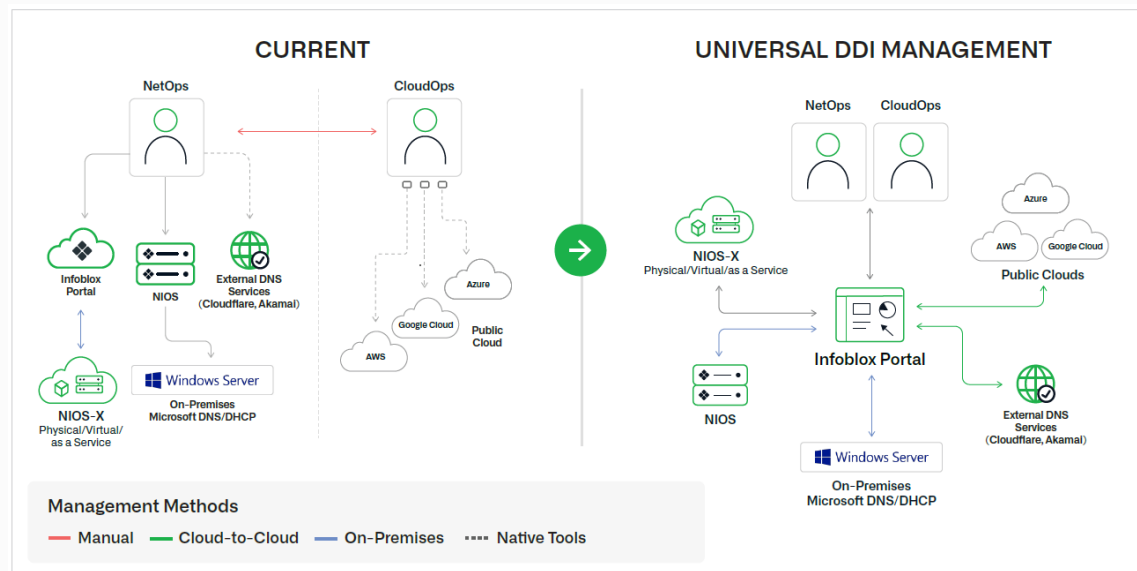


Figure 1. Overview of Universal DDI Management

KEY FEATURES

Infoblox Universal DNS Management™

Universal DDI Management provides comprehensive visibility and control over DNS data and services across the business, no matter where they live. IT teams can monitor and manage DNS records in Infoblox environments (NIOS DDI, NIOS-X, NIOS-X as a Service), public clouds (Amazon Route 53 in AWS, Microsoft Azure DNS, Google Cloud DNS), on-premises Windows Server environments (Microsoft DNS) and even external DNS services hosted by leading SaaS providers Cloudflare and Akamai—all through a single API and the Infoblox Portal. As a result, they can:

- **Drive down errors and outages** by eliminating the need to manually manage disparate systems and interfaces for each DNS service.
- **Gain comprehensive visibility** into DNS data across all teams and toolsets to enhance cross-team collaboration, speed deployments and reduce risk.
- **Simplify automation at scale** by writing to a single Infoblox API, instead of developing and maintaining multiple automation scripts for each DNS provider.

Infoblox Universal DHCP Management™

Universal DDI Management also provides centralized visibility and control over DHCP servers and subnets across the organization. That includes the ability to configure and manage DHCP services in NIOS DDI, NIOS-X and NIOS-X as a Service, as well as in on-premises Windows Server environments running Microsoft DHCP. With the ability to centrally monitor and manage all DHCP assignments from one place, organizations can ensure the non-stop connectivity that all users, devices and applications rely on to keep the business moving.

Infoblox Universal IP Address Management™

Universal DDI Management provides a single point of control for monitoring and managing IP address resources across the business, including internal networks and public and private clouds. By integrating with hyperscale cloud providers like AWS, Microsoft Azure and Google Cloud, it enables NetOps teams to maintain tight control over address ranges and enforce consistent IP address policies across on-premises and cloud environments, avoiding overlaps, outages and waste. At the same time, direct Infoblox integration with cloud-native IPAM tools empowers CloudOps teams to work more quickly and autonomously provisioning new environments and applications.

