

## SOLUTION NOTE

# INFOBLOX UNIVERSAL DDI MANAGEMENT™

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

## SUMMARY

Streamline hybrid and multi-cloud business operations while improving service delivery and efficiency at scale.

Infoblox Universal DDI Management™ is a full-featured Software as a Service (SaaS) solution providing centralized configuration and control of critical network services for hybrid, multi-cloud environments. Universal DDI Management streamlines operations at scale and improves the speed and efficiency of service delivery across the entire hybrid, multi-cloud infrastructure.

## OVERVIEW & CHALLENGES

Businesses are embracing hybrid and multi-cloud deployments to modernize their infrastructures, with many organizations using two or more public cloud providers. These trends are driven by the need to innovate faster, streamline operations, modernize workloads and even integrate environments during and after mergers and acquisitions. However, deploying and managing critical network services such as DNS, DHCP and IP address management has become a major challenge.

The main issue is that cloud services and workflows from any one provider don't extend across providers to manage on-premises deployments. This creates configuration challenges when managing across multiple environments, with organizations managing separate services for each provider or deployment. The results are complex and error-prone manual connections that lead to service outages, delays and increased operational costs. Automation is also problematic, as each provider offers different tools or vendor-specific APIs, resulting in costly and complex operations, deployment delays and higher operational costs.

## THE INFOBLOX SOLUTION

Infoblox, the industry leader in DNS, DHCP and IP address management (or DDI), unifies the delivery and management of critical network services with Infoblox Universal DDI Management™, the industry's first and most comprehensive software as a service (SaaS) solution for distributed hybrid and multi-cloud environments.

## KEY CAPABILITIES

### Unified DNS Zone Management

Federate public and private DNS zones for Amazon Web Services, Microsoft Azure and Google Cloud Platform from a single interface.

### Policy-Based Address Management

Define and maintain address blocks and routing realms for NIOS and cloud tenants.

### Centralized NIOS Management

Manage NIOS, IPAM and DNS objects from a single source, replacing the need for multiple interfaces.

### Segmented Domain Management

Assign administrative rights to segments or compartments of infrastructure for more granular control of network objects, services and workloads.

Universal DDI Management streamlines operations, improving the speed and reliability of business-critical network services across hybrid, multi-cloud infrastructures. Universal DDI Management is designed from the ground up for faster delivery, elastic scaling and eliminating maintenance burdens while configuring DNS across multiple cloud providers, including Amazon Web Services (AWS), Microsoft Azure, Google Cloud Platform and on-premises services alike. Universal DDI Management also includes the industry's only universal IP address management (or IPAM) solution, delivering unmatched features for policy-driven network and IP address allocation across the entire hybrid, multi-cloud network.

Universal DDI Management provides freedom of choice, operational efficiency and scalable and flexible operations while improving service delivery 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.

## UNIVERSAL DDI MANAGEMENT

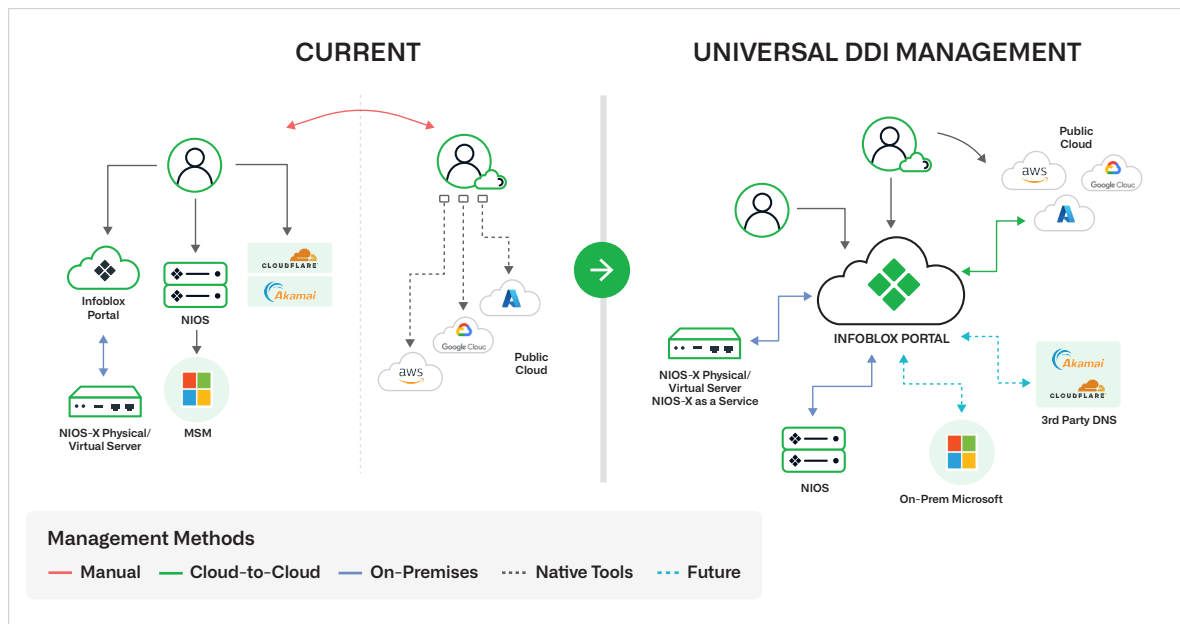
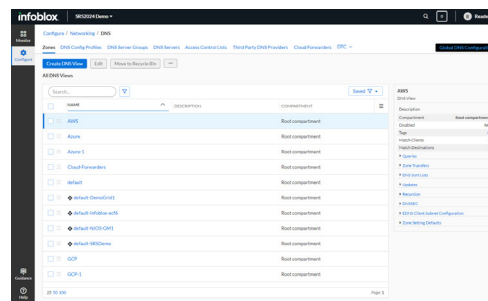


Figure 1: Overview of Universal DDI Management

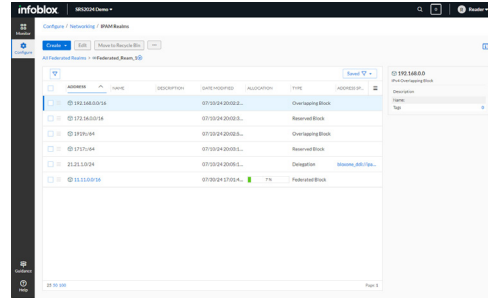
## USE CASE: UNIFIED DNS ZONE MANAGEMENT

Universal DDI Management unifies management of public and private DNS Zones for Amazon Route 53, Microsoft Azure DNS and Google Cloud DNS centrally from a single cloud-native interface.



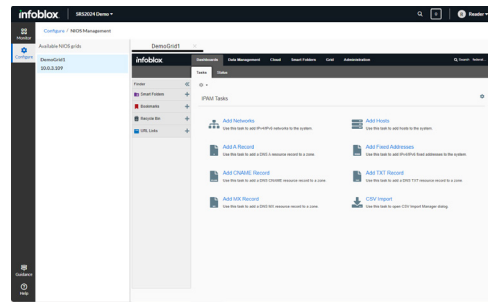
## USE CASE: POLICY-BASED ADDRESS MANAGEMENT

Universal DDI Management organizations define and ensure non-overlapping address blocks and routing realms for cloud tenants and VPC and VNET connectivity.



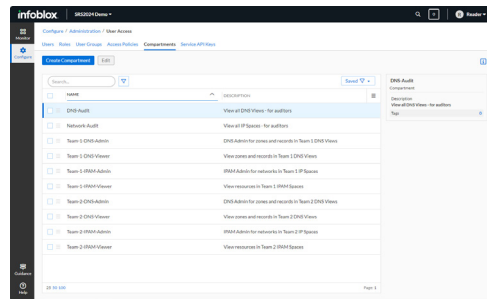
## USE CASE: CENTRALIZED NIOS MANAGEMENT

Universal DDI Management fully manages distributed NIOS IPAM and DNS objects from a single cloud-native interface, replacing the need for multiple points of control for Infoblox DDI services.



## USE CASE: ADMINISTRATIVE DOMAIN MANAGEMENT

Universal DDI assigns administrative rights to segments or compartments within the distributed infrastructure for more granular control of network objects, services and workloads.



## CONCLUSION

Adopting hybrid and multi-cloud deployments has become increasingly important among businesses seeking to modernize their infrastructures. However, this trend brings significant challenges in deploying and managing critical network services such as DDI. The lack of interoperability across different cloud providers and on-premises deployments leads to configuration difficulties and necessitates managing separate services for each environment. This results in complex, error-prone manual processes that can cause service outages, delays and increased operational costs.

Infoblox, the leader in DDI, addresses these challenges with Universal DDI Management, a full-featured SaaS solution providing centralized configuration and control of critical network services for hybrid, multi-cloud environments. Universal DDI Management streamlines operations at scale and significantly improves the speed and efficiency of service delivery across the entire hybrid, multi-cloud infrastructure. Providing the ideal solution to help organizations deliver the reliable, efficient and resilient critical network services today's mobile, IoT and SaaS business environments demand.



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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