DATASHEET

Infoblox DDI for Google Cloud

KEY FEATURES

- Industry-leading DNS and IP address management across Google Cloud Platform

- Fully automated provisioning of DNS records for Google workloads

- Integration with Google Cloud, Microsoft Azure and Amazon Web Services

- Automated discovery of virtual machines and virtual networks with Google Cloud deployments

- Multiple deployment options for scale and high availability

- Flexible licensing for investment protection—license portability across Google and public/private/ hybrid clouds

The Challenge: Lack of Consistent DNS and IP Address Management across Networks and Cloud Deployments

Organizations are deploying workloads to cloud platforms to increase agility, reduce costs and focus on strategic initiatives. Most deployments use the hybrid cloud model. These hybrid clouds encompass traditional on-premises infrastructure (aka private cloud) in conjunction with public cloud services such as Google Cloud, Microsoft Azure and Amazon Web Services.

The hybrid cloud environment has many advantages, but it may also introduce inefficiencies in managing DNS, DHCP, and IP addresses (DDI). Furthermore, without a cohesive view of these core network services, organizations have limited visibility into the virtual networks, VLANs, IP addresses and assigned DNS records—and little correlation of common resources across platforms. In the absence of cloud network automation, service delays can arise as a result of multiple handoffs among the teams that manage the cloud, the network and security. The lack of automation can also cause an increase in trouble tickets and security gaps. Infoblox DDI for Google Cloud can help resolve these inefficiencies.

The Solution: Industry-Leading Hybrid Cloud DNS and IP Address Management

Infoblox has extended its advanced cloud automation solution for DNS and IP address management to the Google Cloud Platform and hybrid cloud deployments, enabling organization to better control, secure and analyze their hybrid and multi-cloud environments. Fully integrated with Infoblox Grid™ technology, our cloud automation solution increases agility, ensures stability with consistent policies and improves visibility of virtual resources and networks in private, hybrid and multi-cloud deployments.

By automating DNS provisioning as part of existing workflows, Infoblox avoids the most common bottleneck of successful implementations and rollouts of applications in the cloud by eliminating unnecessary trouble tickets and manual processes. A single, unified reporting interface improves resource planning and reduces security risks. With Infoblox DDI for Google Cloud, networking and security teams can:

- **Automate Network Services in Google Cloud Hybrid Application**
Automatically provision and deprovision DNS records to eliminate manual steps and ticket handoffs between teams. Leverage powerful integration with multiple platform, automation and orchestration solutions to maximize agility. Customize their implementations based on individual needs to optimize hybrid cloud deployments via a single platform.

- **Track Virtual Resources to Reduce Blind Spots**
Discover and track virtual machines and network components across disparate platforms and cloud environments with a unified console that merges different terms and naming conventions. Audit dynamic virtual resources with current and historical views to to streamline and simplify compliance. Automatically document the destruction of a VM, clean up the DNS record and release the IP address to ensure that information is correct and current.

- **Control Multi-Cloud Environments to Ensure Stability and Availability**
Empower individual departments by distributing authorization for provisioning while maintaining complete oversight as the hybrid cloud evolves. Analyze current and historical policy settings to ensure consistency and improve reliability and security. Leverage elastic scaling to add DDI capacity as hybrid clouds grow, while reducing upfront costs.

Business Value

- Increases network control and agility with automated provisioning, deprovisioning and modifications of DNS records for workloads in Google Cloud and other cloud platforms

- In conjunction with support for Microsoft Azure and AWS, enables greater choice of cloud service providers

- Eliminates blind spots and incongruent views with extended and consolidated visibility across multiple cloud and on-premises environments

- Improves security and reliability by ensuring that hybrid and multi-platform network policies remain consistent and within compliance

- Empowers workload distribution to individual departments while maintaining complete oversight and control as the use of cloud deployments evolves

- Delivers a more secure architecture with purpose-built, hardened virtual DDI appliances and an optional DNS firewall for enhanced security and malware detection
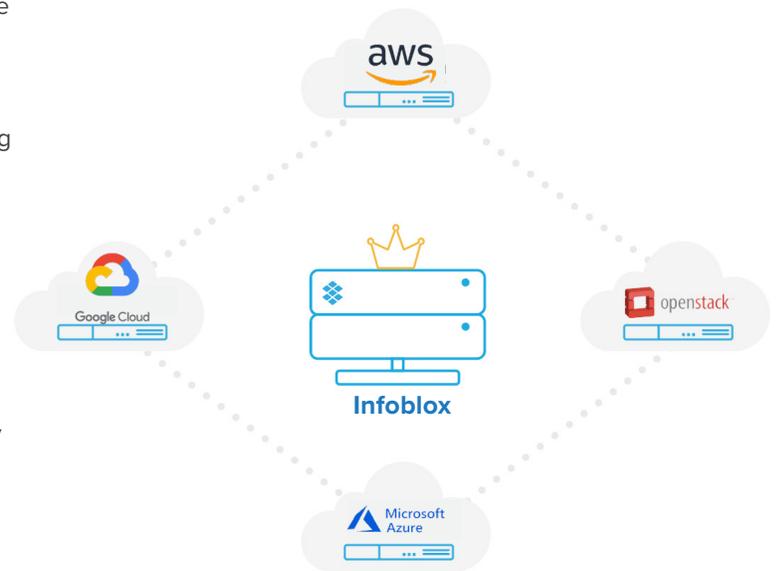

Figure 1: Only Infoblox supports traditional networks and multi-vendor private/public/hybrid clouds with the industry's most widely-adopted DDI solution.

Why Infoblox

Infoblox provides the industry's only solution that brings highly automated, elastic and secure DNS, DHCP and IP address management to traditional networks and public/hybrid cloud deployments. With Infoblox, IT administrators can extend visibility into Google Cloud resources. In addition, our solution provides multi-platform support for better security and audit capabilities for virtualized and traditional network resources— all in a single, consolidated view.