Next Generation DDI: Optimizing NGDCs and Hybrid Clouds

As IT organizations migrate to next-generation data centers (NGDC) and public, private, and hybrid clouds, a key gap exists that impacts agility, visibility, flexibility, and reliability—the lack of automation at the network layer. Unlike automation at the server and storage layers, critical network services are handled manually and are isolated. While servers and storage can be provisioned in minutes, network setup tasks can take hours or days.

Challenges in Virtualized and Cloud Environments

- Automated network and DNS configuration for virtual machines (VMs) is a bottleneck that slows rollout.
- Traditional cloud orchestration platforms do not provide any DNS management capabilities.
- Organizations lack visibility and auditing for IP addresses and DNS records for VMs.
- DDI management is inconsistent and decentralized.
- There is little correlation across enterprise's physical and virtualized environments and private, public, and hybrid cloud deployments.

Ensure Successful NGDC and Cloud Initiatives

Infoblox Actionable Network Intelligence provides DNS, DHCP, and IPAM (DDI) for Cloud and Virtualization helps IT organizations get more agility, visibility, and reliability from their NGDC and cloud deployments—with fewer human resources.

Eliminate the Wait

Infoblox dramatically shortens the time needed for provisioning and de-provisioning critical network services in cloud and virtualized environments. Manual tasks that took hours or days now happen automatically in minutes or seconds through orchestration integration. Automation also greatly reduces operational costs for the data center.

Enhanced Visibility for Security and Compliance Needs

Infoblox provides one central management GUI for all cloud network automation tasks, regardless of the number, size, and geographical location of the clouds. Automatic discovery of virtual resources across hybrid cloud platforms improves troubleshooting, security, and compliance. Integration with VMware, AWS, OpenStack, and others ensures consistency across platforms.

Grow with Future Requirements

Through Infoblox's flexible deployment architecture, critical network services can be deployed in a variety of ways including scale-up or scale-out—enabling vertical (more tenants per cloud) or horizontal (more private clouds at various data center locations) expansion. Infoblox's solutions can be deployed on multi-vendor hybrid-clouds, allowing the customer more flexibility and interoperability.

Improve Reliability

Enterprises spend millions on NGDC and cloud projects but still use free and basic Domain Name System (DNS) products for access. Without DNS, nothing works. Infoblox delivers local, redundant (highly available), enterprise-grade DDI services for every instance at every location. This enables greater availability and local survivability.

Key Takeaway

Cloud and NGDC deployments continue to be a high priority for enterprise IT departments, and their adoption is likely to accelerate in the years to come. The promise of greater business agility will continue to require greater and greater levels of automation. With DDI for Cloud and Virtualization, Infoblox automates key, critical networking tasks for cloud teams, a capability not currently offered by cloud platform providers or networking vendors. Tight integrations with VMware, AWS, OpenStack, Azure, and others ensure your hybrid cloud deployments will be successful.

About Infoblox

Infoblox delivers Actionable Network Intelligence to enterprises, government agencies, and service providers around the world. As the industry leader in DNS, DHCP, and IP address management (DDI), Infoblox provides control and security from the core—empowering thousands of organizations to increase efficiency and visibility, reduce risk, and improve customer experience.