DATASHEET

Infoblox Universal Asset Insights™

In-depth, always up-to-date visibility and insights across hybrid and multi-cloud networks

OVERVIEW & CHALLENGES

Organizations deploying cloud-native solutions are challenged with the disparate nature of managing network services across hybrid and multi-cloud environments, partner networks and a multitude of underlying physical devices, resulting in operational inefficiencies and potential vulnerabilities. The absence of centralized visibility exacerbates these challenges, resulting in a lack of awareness of what is on the network, what is happening on the network and who is responsible for it.

Limited visibility into subnets and other network resources provisioned can lead to misconfigurations and outages. Some organizations have manually tracked the IP addresses and resources using spreadsheets or other in-house tools. However, this approach can lead to visibility gaps or resource conflicts, resulting in longer troubleshooting times and the inability to manage growing environments at scale.

Lack of centralized visibility across hybrid networks is also a security risk. Cloud sprawl is a significant issue for organizations and the inability to track what is on the network and its usage can result in undiscovered zombie assets and orphaned resources and services, leading to increased costs or exploitation by malicious actors.

THE INFOBLOX SOLUTION

Infoblox Universal Asset Insights™ automates the discovery and analysis of IP-based and non-IP-based assets across public clouds, on-premises networks, IoT/OT devices and third-party applications, and keeps them updated without manual intervention.

The expanded asset discovery provides unparalleled, contextualized and near–real-time visibility into the extensive on-premises and multi-cloud assets. It identifies overlapping and conflicting IPs or subnets that can potentially cause application outages. It provides visibility into the utilization of subnet space that the NetOps teams lack in public clouds. It will automatically deliver insights, such as instant identification and management of cloud resources that are forgotten or not being utilized, for example, zombie assets or orphaned resources. Identified unused IP addresses or zombie assets can be reallocated and retired to lower operational expenses and improve security. Combined with Infoblox critical network services, including DNS, DHCP, and IP address management (IPAM), Universal Asset Insights enhances the scope of network visibility and accuracy of IPAM.

KEY CAPABILITIES

Network and Cloud Visibility
Get near–real-time visibility into on-premises and multi-cloud assets for faster troubleshooting, enhanced security and prevention of resource conflicts across your network.

Centralized Operations
Break siloes with a unified asset inventory for viewing IP-based and non-IP-based assets across hybrid and multi-cloud networks, providing an authoritative network source of truth.

Cost Optimization
Monitor your network easily with in-depth analysis and powerful insights. Re-allocate or retire unused IP addresses or zombie cloud assets, lowering cost and optimizing resource allocations.

NetOps, CloudOps and SecOps now have a trusted infrastructure-wide central repository of assets and connectivity details, which improves network visibility, operational efficiency and contextual awareness across the entire environment.
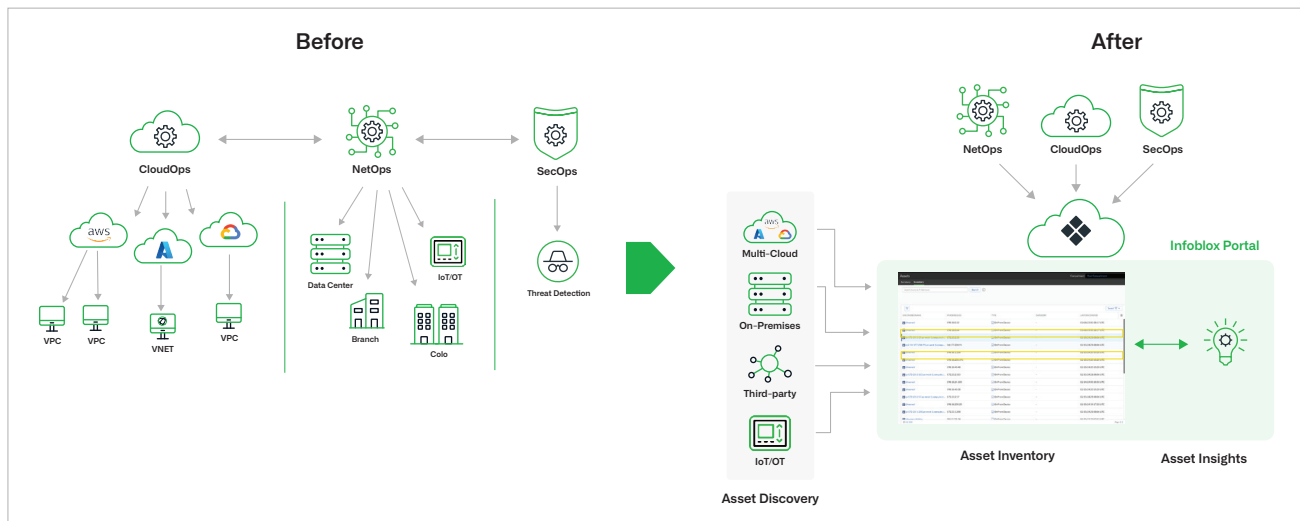

Figure 1: Overview of Infoblox Universal Asset Insights

KEY FEATURES

Network Discovery of On-Premises Assets

Automates the discovery of on-premises physical assets, such as switches, routers, firewalls, load balancers, wireless access points and more. Leverages ecosystem integrations with third-party applications to discover IoT/OT devices and additional network devices. Supports software-defined networking (SDN), software-defined wide-area networking (SD-WAN) and controller-based discovery. Discovers the type of asset, the interface it connects to, MAC address, IP address, vendor, model, operations system version and more.

Network Discovery of Public Cloud Assets

Automates the discovery of assets across multi-cloud networks supporting major public cloud providers, such as Amazon Web Services (AWS), Microsoft Azure and Google Cloud Platform (GCP). Discovers the following assets:

- **AWS:** Virtual private clouds (VPCs), Amazon S3 buckets, subnets, Amazon EC2 instances, internet gateways, National Address Translation (NAT) gateways, transit gateways, elastic IP addresses, route tables, interfaces, virtual private network (VPN) connection, VPN gateway, Kubernetes clusters and elastic load balancers.

- **Azure:** Virtual networks (VNETs), virtual machines, subnets, tenants, management groups, public IP addresses, interfaces, NAT gateways, VPN gateways, route tables, VNET gateways, private endpoints, network watchers, network Azure firewalls, virtual WANs, virtual hubs, Kubernetes clusters and network load balancers.

- **GCP:** Instances, compute networks, compute subnets, projects, disks, routes, network load balancers, VPN gateways, compute addresses, compute routers, VPN tunnels, Kubernetes clusters and internal ranges.

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Intuitive User Interface

Provides an easy-to-use interface with a centralized inventory of assets with options to:

- Search for any asset in the inventory using keywords.

- Filter assets by type or attribute.

- View the detailed asset information, including the discovered name, IP address, MAC address, type, category, last discovered, vendor, context, DHCP fingerprint, discovery sources and operating system.

- Get visibility into the IP address history for each asset.

- Find related assets, such as neighboring or directly connected assets, with a topology viewer.

Authoritative Network Source of Truth

Maintains an authoritative network source of truth for on-premises and cloud assets, updates discovered assets and synchronizes cloud resources, such as VPC/VNET, private addresses, subnets, etcetra, to the IPAM. Analyzes DNS logs to add IP addresses that are not documented in the IPAM.

Insightful Widgets on Zombie Cloud Assets, Unregistered Assets and More

Analyzes discovered asset data and delivers insights, such as instant identification and management of on-premises assets and cloud resources. Provides real-time widgets to view zombie cloud assets, unregistered assets, registered assets, non-compliant assets and more.

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UNIVERSAL ASSET INSIGHTS LICENSING

Universal Asset Insights licensing utilizes a token-based model, which involves purchasing a certain number of tokens to enable specific features or services. Three token types—management, reporting and server—allow organizations to employ any combination of services and deployment models based on business requirements. Additional tokens are available for purchase as needed and enterprise-wide token allocation and utilization metrics are continuously monitored and available in the Infoblox Portal.

UNIVERSAL ASSET INSIGHTS OFFER STRUCTURE

Management Tokens			
Universal DNS ManagementT™ Per # of DNS objects	**Universal DHCP Management™** Per # of DNS objects and IPs	**MANDATORY**	• Mandatory for all management • Price varies by number and object type • Can be purchased and deployed with Infoblox NIOS or Infoblox Threat Defense
Universal IP Address Management™ Per # of IPAM objects and IPs	**Universal Asset Insights™** Per # of asset		

Reporting Tokens			
Reporting Per million logs per month	**Ecosystem** Per million log events per month	**OPTIONAL**	• Optional for reporting and ecosystem • Price varies by number of events per month

Server Tokens			
NIOS-X Virtual Servers Per virtual server sized by performance (**QPS, LPS**) and capacity (**objects**)	**NIOS-X as a Service** Per cloud service sized by performance (**QPS, LPS**) and capacity (**objects**)	**OPTIONAL**	• Optional for server deployments • Price varies by performance and capacity • Available as virtual and as-a-service options

Table 1: Infoblox token-based licensing and offer structure

ABOUT INFOBLOX UNIVERSAL ASSET INSIGHTS

Universal Asset Insights automates the discovery and analysis of assets across public clouds, on-premises networks, IoT/OT devices and third-party applications for improved network visibility, operational efficiency and contextual awareness across hybrid and multi-cloud environments.

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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.

Corporate Headquarters
2390 Mission College Blvd, Ste. 501
Santa Clara, CA 95054

+1.408.986.4000
www.infoblox.com