



Infoblox NIOS Collection for Ansible

Red Hat Software Partner

Maximize Investments by Automating Core Network Services



“Environments are becoming extremely dynamic as virtualization of hardware becomes more and more prevalent. Organizations depend heavily on tools to automate, or orchestrate, tasks as much as possible where new applications or servers can be deployed with a single request.”

There are many significant benefits to automating the workflows and management processes in a datacenter. The Infoblox NIOS Collection for Ansible Automation Platform is a package of modules and plugins that allows managing Infoblox Network Identity Operating System (vNIOS) objects and functions through APIs leveraging Ansible playbooks. This enables network professionals to utilize Infoblox infrastructure for DNS and IP Address Management (IPAM) automation of VMs and containerized workloads deployed across multiple platforms.

Executive summary

The Infoblox NIOS Collection for Ansible provides a centralized and automated way to manage DNS, DHCP, and IPAM (DDI). It enhances the Ansible experience by automating NIOS administrative tasks, saving time and money, reducing errors. Managing hosts, VMs, and the associated network infrastructure becomes efficient and effective.

Product profile

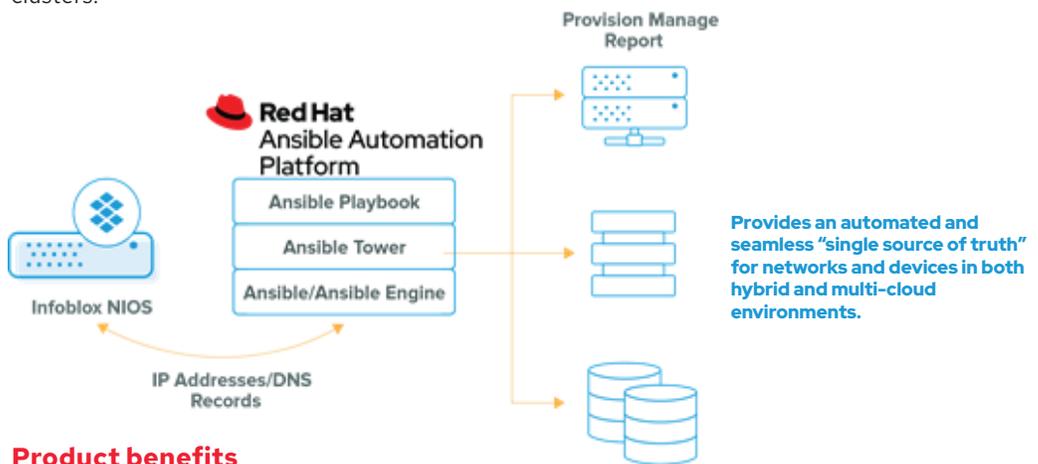
With the Infoblox NIOS Collection for Ansible, network professionals can centrally and efficiently control the DNS and IPAM orchestration of VMs and cloud-native containerized services across all hybrid and multi-cloud deployments, and easily manage movement between VM and container clusters.

DILIP PILLAIKAM
Vice President of service provider products at Infoblox



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Product benefits

The Infoblox NIOS Collection for Ansible provides single-point comprehensive automation of VM and containerized workload deployments across multiple platforms. By integrating Infoblox DDI capabilities with Ansible automation, organizations can:

- ▶ **Reduce Time to Deployment.** Scripting the provisioning of IP addresses and DNS records in an Ansible playbook reduces the elapsed time to bring a networked device and its attendant capabilities online. Thanks to automation, this becomes a "push button" function within a Playbook

“The Infoblox NIOS Collection for Ansible further enables our platform to support our customers with operational simplicity, making it easier to deliver a secure and reliable connection to their end-users and subscribers, while reducing network operating expenses”

DILIP PILLAIPAKAM
Vice President of
service provider
products at Infoblox

- ▶ **Use Network Resources Efficiently.** Infoblox DDI provisions and recovers IP address and DNS records for networked devices, such as servers. By automating these tasks, the use of IP addresses and DNS records is efficient, while provisioning new devices is less prone to IP address conflict.
- ▶ **Improve Network Reliability.** Automation reduces the probability of random human error in network service provisioning and management. This leads to greater network reliability and better user experiences with applications running on that network

Use cases

Organizations can confidently handle the most challenging DDI requirements in every type of network, data center, and hybrid cloud environment.

- ▶ **Provision systems in minutes, instead of days.** Automated IP address provisioning for cloud infrastructure and services enables automatic IP allocation/deallocation and DNS records creation/deletion as applications or services are spun up and shut down.
- ▶ **Automatically leverage the next available IP address capability.** Assign the right IP addresses to the resources being spun up.
- ▶ **Simplify troubleshooting and reduce downtime.** Gain real-time visibility into virtualized and physical network infrastructure..

Learn more

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About Infoblox

The unprecedented growth in devices places tremendous strain on traditional IP address management (IPAM) and Dynamic Host Configuration Protocol (DHCP) systems. Infoblox enables next-level networking with its Secure Cloud-Managed Network Services. As the pioneer in empowering the world's most reliable, secure, and automated networks, Infoblox is relentless in its pursuit of network simplicity. A recognized leader in network services, Infoblox has a 50 percent market share comprising 8,000 customers, including 350 of the Fortune 500.

About Red Hat

Red Hat is the world's leading provider of enterprise open source software solutions, using a community-powered approach to deliver reliable and high-performing Linux, hybrid cloud, container, and Kubernetes technologies. Red Hat helps customers integrate new and existing IT applications, develop cloud-native applications, standardize on our industry-leading operating system, and automate, secure, and manage complex environments. Award-winning support, training, and consulting services make Red Hat a trusted adviser to the Fortune 500. As a strategic partner to cloud providers, system integrators, application vendors, customers, and open source communities, Red Hat can help organizations prepare for the digital future.



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