

Infoblox Virtual Appliance Software for KVM

OPERATE INFOBLOX SERVICES AND MANAGEMENT FEATURES AS VIRTUAL APPLIANCES ON KVM

Infoblox Virtual Appliance Software for Kernel-based Virtual Machine (KVM) leverages the Linux-based solution on x86 hardware virtualization technology and operates Infoblox services and management features as a family of virtual appliances on KVM. It is fully integrated with the Infoblox Grid™ and supports mixed physical and virtual appliance deployments. Each instance of Infoblox Virtual Appliance Software running on the KVM appears to the Grid—Infoblox’s patented real-time distributed database—as any other Grid member. It has all of the benefits of distributed service and centralized management.

Infoblox Virtual Software for KVM, including KVM in OpenStack, supports a full suite of core network services—including DNS, DHCP, IP address management (IPAM), FTP, TFTP, and HTTP protocol servers.

Optional Infoblox DNS Firewall is supported, and provides malware protection, including optional integration with FireEye, to help prevent DNS-based malware callbacks to known bad domains and domains tied to zero-day threats.

Reduced Rack Space, Power, and Cooling Requirements in the Data Center

Infoblox Virtual Software for KVM runs on existing hardware, saving equipment rack space and reducing power and cooling costs, enabling organizations to lower their total cost of ownership and build an environment-friendly infrastructure.

Increased Resilience and Availability

Infoblox Virtual Software for KVM has all of the redundancy, high-availability, access-control, and disaster-recovery features of Infoblox hardware appliances. Users gain all of the proven reliability and uptime benefits of an Infoblox solution while taking advantage of the cost advantages of KVM virtualization. With a single authoritative IPAM database across physical and virtual appliances, all networking address data and interactions for all appliances in the Grid are in a single place, current and available.

Local Survivability at the Branch Office

Infoblox Virtual Software for KVM provides an easy and cost-effective alternative to deploying hardware appliances at branch offices while still providing highly available DNS and DHCP services.

KEY FEATURES

- A single-pane-of-glass view of your network address space
- Layer-2 and layer-3 network device discovery
- Unique DHCP device identification (“fingerprinting” of end points)
- Centralized backup and restoration of user data
- DHCP failover capabilities
- One-touch software upgrades
- DNS without latency
- KVM in OpenStack environment

BENEFITS

- Save power and protect the environment by reducing the number of servers and appliances
- Reduce TCO by decreasing hardware, power, cooling, and real-estate costs
- Deploy easily using your standard virtualization practices
- Benefit from increased resilience and availability of KVM environments
- Combine physical appliance and multiple virtual appliance options into a single deployment



Automate IPAM for Virtual Resources

In a virtualized environment, servers are created, moved, and shut down frequently, increasing IT workload for configuring and managing IP assignments and DNS records. Infoblox DNS, DHCP, and IPAM solutions provide management automation to reduce administrative effort and eliminate human errors that can cause application-availability problems.

Improve IPAM Visibility and Control

Infoblox IPAM provides advanced network discovery (including virtual resources), network and IP mapping, and advanced filtering through innovative features such as Smart Folders. An easy-to-use graphical user interface provides template-based configuration, automated error prevention, and real-time visibility monitoring and reporting.

Delegate DDI Tasks to Relevant Owners

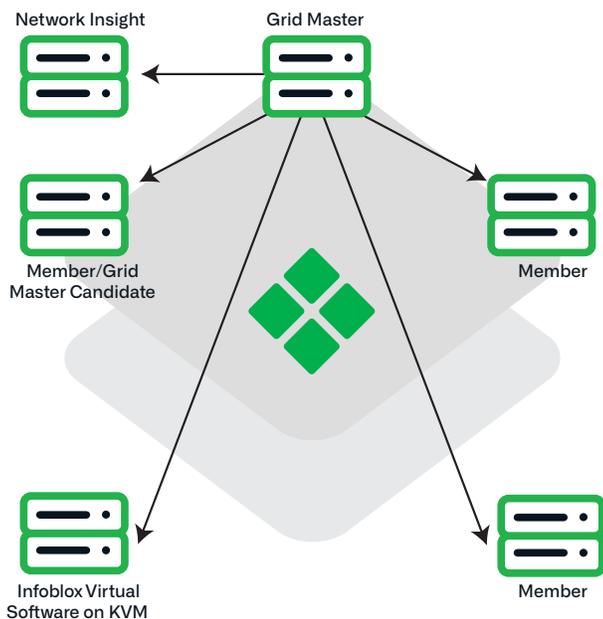
Infoblox Virtual Software for KVM provides secure role-based administration and auditing capabilities to allow effective delegation of responsibilities in a virtualized environment. With Infoblox IPAM tools, the network team can collaborate effectively with server and datacenter teams.

Visibility of Infrastructure Device Data

Infoblox Network Insight virtual software for KVM integrates infrastructure device data with IP address management. The collection and correlation of this data provides unprecedented visibility to help administrators better manage their networks, validate designs, and effectively provision, troubleshoot, and deliver network services.

Trending, Reporting, and Analysis

Infoblox Reporting leverages our unique platform for real-time views and management of DNS, DHCP, IPAM and network services security to provide long-term reporting, trending, and tracking. Integrated with our Grid technology, Infoblox Reporting enhances real-time management of networks and network services through an extensive, customizable, and historical reporting engine.



Example of Infoblox Virtual Software for KVM deployed in an Infoblox Grid™

NIOS Virtual Model	KVM for Hypervisor	KVM for OpenStack	Supported as Grid Master
TE-V100	X	X	
TE-V800	X		
TR-V800	X	X	
TR-V805	X	X	
TE-V810	X	X	X
TE-V815	X	X	X
TE-V820	X	X	X
TE-V825	X	X	X
TR-V1405	X	X	
TE-V1415	X	X	X
TE-V1420	X	X	X
TE-V1425	X	X	X
TR-V2205	X	X	
TE-V2215	X	X	X
TE-V2200	X	X	X
TE-V2225	X	X	X
ND-V805	X	X	
ND-V1405	X	X	
ND-V2205	X	X	
CP-V800	X	X	
CP-V1400	X	X	
CP-V2200	X	X	

*NIOS for KVM is supported in the following environments: OpenStack, RHEL, SuSE Enterprise and Cloud, and CentOS.



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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