

Infoblox NIOS DDI


An important early step in conducting any census of managed assets is to validate IPAM tracking and allocation data. To that end, Infoblox has been integrated with Asset Manager. The integration brings the reach of Asset Manager's network discovery to the IP address management (IPAM) space.

When you activate the Infoblox IPAM integration, Asset Manager . . .

- 1. Queries Infoblox
- 2. Correlates that data against what Asset Manager "knows"
- 3. Generates reports
- 4. Pushes metadata about discovered devices to Infoblox

This integration reconciles data between Asset Manager and Infoblox without directly reading or modifying Infoblox tables: All pull/update operations are performed by API calls. This integration enables you to produce and export an IP list with which you can update Infoblox's data. With the two solutions working together, gaps in IP management coverage are eliminated and your organization can accurately account for its assets under management.

Asset Manager also collects data from more record types, including host, A, AAAA, and PTR. In addition, the extensible attributes "Site," "Device Type," and "Operating System" are now pushed from Asset Manager and populate in Infoblox.


 Infoblox logs out after only a minute of idle time. To increase the session timeout value . . .

- Grid Grid Manager Grid Properties Edit Security Session Timeout Max Value: from 60 - 31536000

Documentation by Infoblox & Infoblox Community

- [Infoblox WAPI documentation¶](#)
- [REST API documentation](#)
- [Creating Extensible Attribute Using API](#)

Configuration via Asset Manager GUI

 For deployment via the Linux shell, see [Deployment & Configuration via Asset Manager CLI](#).

To configure connectivity between the Asset Manager Command Center and the Infoblox server:

- 1. On the Asset Manager main menu, browse to **Settings > Integrations** and **Configure** Infoblox Integration
- 2. Provide connection credentials, described here:

Field	Example	Description
Polling Interval	24	How often (in hours) that Asset Manager should poll Infoblox for information
Server Name	10.101.33.44	The Server name or IP address of the Infoblox server.
Server User Name	infouser	Your Infoblox username
Server Password	*****	Your Infoblox password

- 3. Click Enable
- 4. For more on this integration's reports, see the [IP Address Management](#) page.

To see the results within Infoblox, log into Infoblox and browse to **Data Management > IPAM**.

Using Infoblox GUI

To view managed and unmanaged CIDRs and IP address, brown in Infoblox to Data Management IPAM:

Infoblox Dashboards Data Management Smart Folders Grid Administration

IPAM VLANs Super Host DHCP DNS File Distribution

Finder Smart Folders Bookmarks Recycle Bin URL Links

default Network View

Quick Filter [S] - Managed On Filter Off Show Filter Toggle flat view

	NETWORK	COMMENT	IPAM UTILIZATION	DISCOVERY ENGINE
	0.0.1.0/24		0.3%	None
	1.1.1.0/24		0.7%	None
	2.2.2.0/24		0.3%	None
	3.3.3.0/24		0.3%	None

The IPAM Utilization column shows how much of the address space is used by actual hosts.

DNS

IPv6 and DNS Records is supported.

To view the zones that hold DNS records:

1. Browse to DNS Zones.
2. Click a record such as "lum-forward"

Infoblox Dashboards Data Management Smart Folders Grid Administration

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default

Quick Filter None On Filter On Show Filter Toggle flat view

	NAME	GRID PRIMARY SE...	TYPE	COMMENT	MULTI-MASTER Z...	MONITORED SINCE	LAST QUERIED	RECORDS MONITOR...	SITE
	lum-forward		Authoritative		No	Not Monitored	Not Monitored	No	
	0.0.127.in-ad...		Auto-created		No	Not Monitored	Not Monitored	N/A	
	1.200.172.in-ad...		Authoritative		No	Not Monitored	Not Monitored	No	
	1.0.0.0.0.0.0.0...		Auto-created		No	Not Monitored	Not Monitored	N/A	

lum-forward Authoritative Zone

Records Subzones

Quick Filter None On Filter On Show Filter Toggle flat view

	NAME	TYPE	DATA	RECORD SOURCE	PRINCIPAL	PROTECTED	COMMENT	MONITORED SINCE	LAST QUERIED	RECLAIMABLE	CREATION TIME
		A Record	172.200.1.1	Static		No		Not Monitored	Not Monitored	No	2020-11-17 15:5...
	03_10_32_214	Host	3.10.32.214	Static		No		Not Monitored	Not Monitored	No	
	1-141	Host	172.210.1.141	Static		Yes		Not Monitored	Not Monitored	No	
	1-176	Host	172.210.1.176	Static		Yes		Not Monitored	Not Monitored	No	
	52-11	Host	172.16.52.11	Static		Yes		Not Monitored	Not Monitored	No	

3. You can see the record types in the Type column and add a new record here of the types A, AAAA, PTR, Host.

Extensible Attributes

To view extensible attributes from the GUI:

1. Navigate to Administration Extensible Attributes

The screenshot shows the Infoblox Administration console. The top navigation bar includes 'Administration' and 'Extensible Attributes'. The left sidebar has a 'Finder' section with links to Smart Folders, Bookmarks, Recycle Bin, and URL Links. The main content area is titled 'Extensible Attributes' and features a 'Quick Filter' dropdown set to 'None'. Below the filter is a table of attributes:

NAME	TYPE	COMMENT	REQUIRED	RESTRICTED TO	INHERITANCE ENABLED
Building	String		No	IPv4 Network, IP...	No
Country	String		No	IPv4 Network, IP...	No
IB Discovery O...	String		No		No
Region	String		No	IPv4 Network, IP...	No
ReportingSite	List		No	Member	No
Site	String		No		No
State	String		No	IPv4 Network, IP...	No
VLAN	String		No	IPv4 Network, IP...	No

2. You can add or import extensible attributes from here, if you want.



Extensible Attributes

From 4.7 and later, Asset Manager-related Extensible Attributes are automatically created on the Infoblox server when an integration is enabled.

Add Extensible Attribute Wizard > Step 1 of 2

Name

Type

Number of characters Min Max

Comment

To view extensible attributes from the CLI:

- ```
curl -s -k -u admin:infoblox -X GET "https://172.16.42.113/wapi/v2.8/extensibleattributedef?_return_fields=name,type,list_values" | grep "name"
```

```
"name": "Building",
"name": "Country",
"name": "Region",
"name": "Site",
"name": "State",
"name": "VLAN",
"name": "IB Discovery Owned",
"name": "Parental-Control-Policy",
"name": "Subscriber-Secure-Policy",
"name": "Proxy-All",
"name": "Black-List",
"name": "White-List",
"name": "PC-Category-Policy",
"name": "User-Name",
"name": "ReportingSite",
```

## To view/create/delete extensible attributes from Infoblox GUI: Administration Extensible Attributes:

This applies to versions 4.6 or earlier. As an example of creating "Operating System" extensible attribute:

```
curl -k -u infoadmin:infopass -X POST 'https://172.16.42.113/wapi/v2.11/extensibleattributedef' -H "Content-Type: application/json" -d '{"name": "Operating System", "type": "STRING"}'
```

Add extensible attributes as a column when listing IPs in Infoblox view.