infoblox.

DEPLOYMENT GUIDE

Implementing Microsoft Server DNS Logging and Diagnostics with Reporting and Analytics

Table of Contents

Feature Overview. 2 Data Flow for Grid Support of Microsoft DNS and DHCP Servers. 4 Requirements. 4 Deployment Summary. 4 Deployment Instructions. 4 Enable Analytics on the Microsoft Server. 4 Add Microsoft DNS and DHCP servers to the Grid. 8 Enable receiving of report data from Microsoft server. 11	Introduction	2
Data Flow for Grid Support of Microsoft DNS and DHCP Servers. 4 Requirements. 4 Deployment Summary. 4 Deployment Instructions. 4 Enable Analytics on the Microsoft Server. 4 Add Microsoft DNS and DHCP servers to the Grid. 8 Enable receiving of report data from Microsoft server. 11	Feature Overview	2
Requirements	Data Flow for Grid Support of Microsoft DNS and DHCP Servers	
Deployment Summary. 4 Deployment Instructions. 4 Enable Analytics on the Microsoft Server. 4 Add Microsoft DNS and DHCP servers to the Grid. 8 Enable receiving of report data from Microsoft server. 11	Requirements	4
Deployment Instructions 4 Enable Analytics on the Microsoft Server. 4 Add Microsoft DNS and DHCP servers to the Grid. 8 Enable receiving of report data from Microsoft server. 11	Deployment Summary	
Enable Analytics on the Microsoft Server	Deployment Instructions	
Add Microsoft DNS and DHCP servers to the Grid	Enable Analytics on the Microsoft Server	4
Enable receiving of report data from Microsoft server	Add Microsoft DNS and DHCP servers to the Grid	8
	Enable receiving of report data from Microsoft server	11
Viewing Reports	Viewing Reports	
Troubleshooting	Troubleshooting	

Introduction

The Infoblox DDI solution now supports data from Microsoft DNS and DHCP services and integrates this data into the reporting and analytics platform thus providing a single view into all DDI (DNS, DHCP and IP Address Management) services.

This deployment guide explains how to enable and provision Microsoft DNS and DHCP logging, to integrate with the Infoblox Reporting and Analytics platform.

Feature Overview

- Supports existing DNS/DHCP/IPAM reports to include the data from Microsoft DNS and DHCP servers along with Infoblox appliance data.
- Synchronizes Microsoft 'DNS Analytic events' logged for DNS queries and DNS responses in 'Event Viewer' for preparing DNS reports data.
- DHCP/IPAM reports data is prepared based upon existing Microsoft DHCP object synchronization.
- Leverages Microsoft server managing Grid member's reporting configurations and service to prepare the data as a forwarder and send to the reporting member (indexer).
- Uploads the collected data files to Data Connector VM to support DCVM reports with Microsoft DNS data.
- The following DHCP Reports are supported with Microsoft data:
 - DHCP Lease History
 - DHCP Message Rate Trend
 - DHCP Top Lease Clients
 - DHCPv4 Usage Trend
 - DHCPv4 Usage Statistics
 - DHCPv4 Range Utilization Trend
 - DHCPv4 Top Utilized Networks
- The following IPAM reports are supported with Microsoft data:
 - IPAMv4 Network Usage Statistics
 - IPAMv4 Network Usage Trend

- IPAMv4 Top Utilized Networks
- The following DNS reports are supported with Microsoft data:
 - DDNS Update Rate Trend
 - DNS Top Requested Domain Names
 - DNS Query Rate by Query Type
 - DNS Top Clients
 - DNS Query Rate by Member
 - DNS Daily Peak Hour Query Rate by Member
 - DNS Top Clients per Domain
 - DNS Top NXDOMAIN-NOERROR (no data)
 - DNS Top SERVFAIL Errors Sent
 - DNS Top Timed-Out Recursive Queries
 - DNS Query Trend Per IP Block Group
 - DNS Domains Queried by Client
 - DNS Domain Query Trend
 - Top DNS Clients by Query Type
 - DNS Top Clients Querying MX Records

Data Flow for Grid Support of Microsoft DNS and DHCP Servers



Requirements

The following items are required for Microsoft DNS and DHCP server support:

- Infoblox NIOS version 8.2.1 or later.
- Infoblox Microsoft management license for every member that will service Microsoft DNS and DHCP servers.
- Infoblox Reporting Server.
- Supported <u>Microsoft Windows Versions</u>

Deployment Summary

- Enable enhanced DNS logging and diagnostics.
- Install Microsoft management license on each member performing MS synchronization services.
- Add Microsoft DNS and DHCP servers to the Grid Member(s).

Deployment Instructions

Enable Analytics on the Microsoft Server

- 1. Log onto the Microsoft Server.
- 2. From an elevated command prompt, type eventvwr.msc to start the event viewer.



3. In the event viewer, navigate to Applications and Services Logs \rightarrow DNS-Server. Note: This entry will not appear if the Microsoft 2012 R2 server is not up-to-date on patches.



4. Right click on **DNS-Server**, point to **View**, and then click **Show Analytic and Debug Logs**. The Analytical log will be displayed.

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5. Right Click on Analytical and then click on Properties.

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r raining -	@telumation 101/287124607AM DM5-Server 256 100	U(U)
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6. In the screen above, under When maximum event log size is reached, choose **Do not overwrite** events (Clear logs manually), select the **Enable logging checkbox**, and click **OK** when you are asked if you want to enable this log. *Note: This step is documented in the Microsoft website*.

	Log Properties - Analytical (Type: Analytic)
General Subscript	ions
Full Name:	Microsoft-Windows-DNSServer/Analytical
Log path:	$\% System Root\% System 32 \\ Winevt \\ Logs \\ Microsoft \\ Windows \\ DNSServer\% \\ 4 \\ Analytical. \\ e$
Log size:	92.80 MB(97,304,576 bytes)
Created:	Wednesday, July 26, 2017 1:28:16 PM
Modified:	Monday, July 31, 2017 12:48:02 AM
Accessed:	Event Viewer
Enable lo Maximum When maxi	Analytic and Debug logs may lose events when they are enabled. Do you want to enable this log?
Ove	OK Cancel
O Do not or	renvince events (Clear logs manually)
	Clear Log
	OK Cancel Apply

Add Microsoft DNS and DHCP servers to the Grid

Note: This section is optional if you have already added your Microsoft servers to the Grid Master. If you have already added Microsoft servers to your grid, then skip to the next section.

 Navigate Grid → Microsoft Servers → Toolbar → Add Microsoft Servers. Enter the domain/username and password. Select the managing member by clicking on the Select Member button. Select the Network View and DNS View to synchronize. Click Next. Note: The screenshot below is just an example. Refer to the NIOS Administrator's Guide on setting the proper Microsoft server credentials.

Add Microsoft Server	Add Microsoft Server(s) Wizard > Step 1 of 3							
GENERAL SETTINGS			0					
Credentials to connect to the Microsoft server(s)	*Domain\username Password	administrator	«					
Managing Member	O None O demog	m1.infoblox.com act Member						
* Minimum synchronization interval	2	minutes						
Synchronize data into Network View	Company 1	v						
Synchronize DNS data *into DNS View	default 🗸							
Logging level	Normal 🗸							
Logging output destination	Microsoft Log	Override						
Comment	[
Cancel		Previous Next	Save & Close 🔹					

2. Set the credentials for connecting to DNS and DHCP services and set the Manage DNS and DHCP services in to Read/Write or Read Only. Click Next.

Add Microsoft Server(s) Wizard > Step 2 of 5									
Select your across-server settings for DNS and DHCP Services Use general credentials (from first page of wizard)									
Credentials to connect to DNS and DHCP Services	Domain\username Password								
🗹 Use general synchron	ization interval (from first pag	ge of wizard)							
* Minimum synchronization interval	2	minutes							
Manage DNS and DHCP services in	Read/Write								
Cancel		Previous Next Save & Cic	Se •						

3. Set the credentials for connecting to Active Directory and set the **Manage Active Directory sites in** to Read/Write or Read Only. Click **Next**.

Add Microsoft Server(s) Wizard > Step 3 of 5									
Select your across-server settings for Active Directory Sites									
Credentials for synchronizing Active Directory information	Domain\username Password								
🗹 Use general synchroni:	zation interval (from first pag	je of wizard)							
* Minimum synchronization interval	2	minutes							
Manage Active Directory sites in	Read/Write								
Encryption	None								
*TCP port for LDAP connections:	389								
Cancel		Previous Next Save & Close	•						

4. Add the servers with either the FQDN or IP address and select the services to be synchronized with the Grid Member. Click **Save & Close**.

Add Microsoft Server(s) Wizard > Step 4 of 5								
MANAGED SERVERS								? «
Name or IP Address	DNS Sync	DHCP Sync	Active Dir	DNS Monitor & Cont	rol	Synchronize DNS F	Reporting Data	
192.168.1.1				Inherited from Grid	Override	Inherited from Grid		
Cancel			Previous	Next			Save & Close	•

5. After about 5 minutes of synchronizing the data between the Grid Master, you should see the following:

Infoblox 📚		Dashboards Data Manage	ment Cloud	Smart Folders	Reporting Gric	Administration			
		Grid Manager Upgrade	Licenses HS	M Group Micros	oft Servers Amazo	on Ecosystem			
Finder	~	Servers Active Directory	Domains						
Real Smart Folders	+	Microsoft Servers	R						
Bookmarks	+	Quick Filter None	V Off Filt	er On Show Fil	lter				
Recycle Bin	+	+ =+ = =	NILLIA				Go to		Go
🔚 URL Links	+		Status 🔺	Synchronization	Last Changed	IP Address	DNS	DHCP	Comment
			Running	Running	2023-11-06 13:07:28	U 10.61.10.152			

Enable receiving of report data from Microsoft server

1. Navigate to Grid \rightarrow Grid Manager \rightarrow Toolbar \rightarrow Grid Properties \rightarrow Edit.

Toggle Basic Mode	Basic Advance	ed	
General			
CSP Config	*Grid Name	Infoblox	
Security	*Shared Secret		
Password		· · · ·	
Proxy Settings	*Shared Secret Retype	·····	
DNS Resolver			
Monitoring	Time Zone	(UTC) Coordinated Univ	
Syslog Backup	Date	2020-09-08	
SNMP	Buto		
SNMP Threshold	Time	10:09:55 PM	
Notification			
Email	*VPN Port	1194	
LOM	Enable Recycle Bin		
Customer Improvement	Enable Recycle bill	-	
NAT Groups	Audit Logging	 Brief 	
Object Change Tracking		 Detailed 	
ActiveTrust Cloud Integration		WAPI Detailed	
Microsoft Integration		Selecting WAPI Detailed will make the logs roll-over faster as it records WAPI	
Extensible Attribute Inheritance		the audit log messages to syslog and to an external server for longer retention.	
	*Token usage timeout	10	

2. Toggle Advanced Mode and then click on Microsoft Integration. Click on Synchronize DNS Reporting Data. Click Save & Close.

Infoblox (Grid Properties	Editor)	×
Toggle Basic Mode	Basic Advanced	8
General		
CSP Config	GENERAL	
Security		
Password	destination	
Proxy Settings		
DNS Resolver		
Monitoring	NETWORK USERS	
Syslog Backup	Assumed Network Users 2 Hours -	
SNMP	Time Out	
SNMP Threshold	Synchronize Network Users with all MS servers Before synchronizing with Microsoft servers, enable the Network Users feature in the	
Notification	General -> Advanced tab of the Grid Properties Editor.	
Email		
LOM	MICROSOFT DNS AND DHCP SERVICES	
Customer Improvement		
NAT Groups	Monitor and control DNS Services	
Object Change Tracking	☑ Synchronize DNS Reporting Data	
ActiveTrust Cloud Integration	Monitor and control DHCP Services	
Microsoft Integration		
Extensible Attribute Inheritance		
Cancel	Save & Close	•

3. By default, the analytics logs from the Microsoft server are synchronized from Microsoft event logs every 15 seconds. You can change the DNS synchronization interval to any time between 1 second to 3600 seconds.



Viewing Reports

1. Navigate to the **Reporting tab** and pick one or more of the supported reports. Take note of the Microsoft server drop down menu for filtering purposes.

Infoblox 📚	Dashboards	Data Managemen	t Cloud	Smart Folders	Reporting	Grid	Administration						Q Search	admin 👻
Apps: Infoblox Repo	rting & Analytics 🔻						infoblox-admin	Messag	ies 🕶 Si	ettings 🔻	Activity 🔻	Help 🔻	Find	q
Home Dashboard												nfoblox Re	porting & A	nalytics
la Home Da	shboard											Edit	Export 💌	
DDI Summary														
Hourly Grid-wide	QPS			Hourly Grid-wide	e Issued DHC	P Lease:	s		Dally Tota	al Allocated	d IP Address	es		
	No results fou	nd.			Compared	1 to a day b	efore				No results	found.		
DNS														
Top 10 DNS Clier	nts (past day)													
					No res	ults found	d.							

Troubleshooting

If the reports are not showing any data from the Microsoft servers, you can look at the Audit log or Microsoft log.

1. To see the Audit log, navigate to Administration \rightarrow Logs \rightarrow Audit Log. Look for entries that pertain to the IP address of the Microsoft server.

Infoblox 📚		Master Grid	Dashboards	Data Manageme	nt Cloud	Smart Folders	Reporting Grid	Administration				Q, Search	thomasl	
			Administrators	Workflow	Logs Network	Views Extensibl	e Attributes Clou	d Authentication Se	rver Groups	Named ACLs	Reporting			
*	Audit Log Syslog	Microsoft Log										Toolbar	>>	6
//	Audit Log	Viewer										Lownload		
	Quick Filter None	✓ on	Filter On St		➡ IDN Converter									
	C = ± ±	× I 🖨							192.16	8.4.21	۹ • •			
	TIMESTAMP -	ADMIN	ACTION	OBJECT TYPE	OBJECT NAME	EXECUTION STATUS	MESSAGE							
	2020-08-10 08:00:34 PD	T sholland	CALLED		PrepareReporti	Normal	user: to=sholland							
	2020-08-10 07:57:57 PD	F sholland	CALLED		PrepareReporti	. Normal	user: to=sholland							
	2020-08-10 07:57:21 PD	r sholland	LOGIN_ALLOW			Normal	to=AdminConnecto	ip=70.251.215.29 auth=	AD group=TM8	E-SSO-demos appa	rently_via=GUI:			
	2020-08-10 07:46:26 PD	T eneufeld	MODIFIED	Microsoft Server	192.168.4.22	Normal	ad_sites: login_pas	sword from=***** login_p	assword to=**	**** ad_user_sync: I	login_password f			
	2020-08-10 07:37:09 PD	T eneufeld	CALLED		TestMsServerS	. Normal	msserver: MsServe	192.168.4.21						
	2020-08-10 07:33:41 PD	T mchara	LOGIN_ALLOW			Normal	to=AdminConnecto	ip=190.253.250.241 aut	h=AD group=T	ME-SSO-demos ap	parently_via=GUI:			
	2020-08-10 07:26:40 PD	r eneufeld	CALLED		TestMsServerS	Normal	msserver: MsServe	192.168.4.22						
	2020-08-10 07:24:31 PD	T eneufeld	LOGIN_ALLOW			Normal	to=AdminConnecto	ip=93.214.245.156 auth	=AD group=TN	IE-SSO-demos app	arently_via=GUI:			
	2020-08-10 07:17:58 PD	T eneufeld	LOGOUT			Normal	ip=93.214.245.156	group=TME-SSO-demos	trigger_event=	Session Expiration:				
	2020-08-10 07:15:42 PD	T admin	CALLED		Activate	Normal	ip_infos: to=(ip_add	ress 192.168.1.232 nat_e	enabled false] r	name: to=Infoblox D	ata Collection Vi			
	2020-08-10 07:15:42 PD	T admin	LOGIN_ALLOW			Normal	to=AdminConnecto	ip=192.168.1.232 auth=	LOCAL group=	admin-group appar	ently_via=API:			
	2020-08-10 07:15:41 PD	T admin	LOGIN_ALLOW			Normal	to=AdminConnecto	ip=192.168.1.232 auth=	LOCAL group=	admin-group appar	ently_via=API:			
	2020-08-10 07:15:41 PD	T admin	LOGIN_ALLOW			Normal	to=AdminConnecto	ip=192.168.1.232 auth=	LOCAL group=	admin-group appar	ently_via=API:			
	2020-08-10 07:15:41 PD	Г admin	LOGIN_ALLOW			Normal	to=AdminConnecto	ip=192.168.1.232 auth=	LOCAL group=	admin-group appar	ently_via=API:			
	H I F H													

2. To see the Microsoft log, navigate to Administration \rightarrow Logs \rightarrow Microsoft Log.

Inf	oblox 📚	Master Grid	Dashboards	Data Managem	ent Cloud	Smart Folders	Reporting	Grid	Administration				Q Search	thomasi	•					
			Administrators	Workflow	Logs Networ	rk Views Exten	sible Attributes	Cloud	Authentication Se	rver Groups	Named ACLs	Reporting								
*	Audit Log Syslog	Microsoft Log											Toolbar	≫	0					
~N	licrosoft Server Log Log Viewer Server dc1.ad.intobloxdem.o.c 🎽 🛱 Note: Logs for some Microsoft servers may be found on the Syslog tab																			
	Quick Filter None 🗸 Cri Filter On Show Filter 🚡 Toggle multi-line view																			
	CIENTER (14)																			
	TIMESTAMP 👻	SOURCE	LEVEL	OBJECT TYPE	OBJECT NAME	MESSAGE														
	2020-09-08 15:37:30 PD	F Sync status	INFO	ADDRESS	192.168.4.21	Opened RPC in	nterface <ms-scn< td=""><td>IR> as user</td><td>'ad\niosadmin'</td><td></td><td></td><td></td><td colspan="8"></td></ms-scn<>	IR> as user	'ad\niosadmin'											
	2020-09-08 15:37:06 PD	Sync DNS zone	INFO	FQDN	adtest	Summary of op	erations on NIOS	Microsoft (a	idded, updated, delete	id, ignored): rei	cords (0/0, 0/0, 0/0	0/0), zone prop	•							
	2020-09-08 15:37:06 PD	Sync DNS zone	INFO	FQDN	adtest	Committing syn	chronization.													
	2020-09-08 15:37:06 PD	Sync DNS zone	ERROR	FQDN	adtest	Operation 'add'	Operation 'add' on record 'm2.infobiox.com.' in DNS zone 'adtest' ignored: DNS record already exists.													
	2020-09-08 15:37:06 PD	Sync DNS zone	ERROR	FQDN	adtest	Operation 'add'	on record '@' in E													
	2020-09-08 15:37:06 PD	F Sync DNS zone	INFO	FQDN	adtest	Opened RPC in	terface <ms-dns< td=""><td>SP> as user</td><td>'ad\niosadmin'</td><td></td><td></td><td></td><td colspan="7" rowspan="4"></td></ms-dns<>	SP> as user	'ad\niosadmin'											
	2020-09-08 15:37:06 PD	F Sync DNS zone	INFO	FQDN	adtest	NIOS added na	meserver associa	tion @ (nan	ne= dname=m2.infobl	ox.com addres:	s=2001:db8:a42:ca	fe:100::4).								
	2020-09-08 15:37:06 PD	Sync DNS zone	INFO	FQDN	adtest	Restricting synd	chronization to zor	ne propertie	s and nameservers du	e to identical S	OA serial number	(8).								
	2020-09-08 15:37:06 PD	Sync DNS zone	INFO	FQDN	adtest	Opened RPC in	nterface <ms-dns< td=""><td>SP> as user</td><td>'ad\niosadmin'</td><td></td><td></td><td></td></ms-dns<>	SP> as user	'ad\niosadmin'											
	2020-09-08 15:37:06 PD	F Sync DNS zone	INFO	FQDN	adtest	Starting synchro	onization.													
	2020-09-08 15:37:06 PD	Sync DNS zone ERROR FQDN adtest Pending operation 1016312 has failed: Duplicate object in list																		
	2020-09-08 15:37:00 PD	F Sync status	INFO	ADDRESS	192.168.4.21	Opened RPC in	nterface <ms-scn< td=""><td>IR> as user</td><td>'ad'niosadmin'</td><td></td><td></td><td></td><th></th><td></td><td></td></ms-scn<>	IR> as user	'ad'niosadmin'											
	2020-09-08 15:36:30 PD	F Sync status	INFO	ADDRESS	192.168.4.21	Opened RPC in	nterface <ms-scn< td=""><td>IR> as user</td><td>'ad'niosadmin'</td><td></td><td></td><td></td><td colspan="5" rowspan="2"></td></ms-scn<>	IR> as user	'ad'niosadmin'											
	2020-09-08 15:36:06 PD	Sync Network U	INFO	ADDRESS	192.168.4.21	Committing syn	chronization.													
	N A D DI																			

infoblox.

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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