

DEPLOYMENT GUIDE

Infoblox Data Import Wizard



TABLE OF CONTENTS

Introduction	3
Solution	3
Formats Supported	3
Prerequisites	3
Deployment.....	3
Installation	3
Import Data from Microsoft Server	5
Browse data from the legacy system	5
Import DNS data	10
Import DHCP data.....	20
Import Data from Bind Server	27
Import DNS data	27
Resources	35

Introduction

With the constant evolution of datacenters and customers migrating to Infoblox, there is a need for a simple automated way of moving across the data from existing systems.

Solution

The Data Import Wizard allows users to migrate from legacy systems to the Infoblox Grid.

It can import DNS, DHCP, and TFTP data from a legacy server. The wizard can either import the data to an Infoblox appliance or it can parse data without connecting to an appliance. This helps in reviewing the data before importing it.

Formats Supported

The wizard can import DNS data in the following formats:

BIND 9, BIND 8, BIND 4, Microsoft DNS, Lucent VitalQIP and Nortel NetID.

It can import DHCP data in the following formats:

ISC DHCP, Microsoft DHCP, Lucent VitalQIP, and Nortel NetID.

It can also parse and import an IPAM (IP address management) data file in CSV (Comma Separated Value) format.

This deployment guide will walk you through importing data from Microsoft DNS/DHCP and BIND 9.

Prerequisites

Before you begin, make sure you have the following:

- Java installed on the legacy systems that you are running the Data Import Wizard on. You can download the latest version of java from [here](#).
- To import data to an appliance or grid master, the wizard must be able to connect to the appliance and log in with a superuser name and password.
- To import DNS data through a zone transfer, you must configure the legacy DNS server to allow zone transfers to the Infoblox appliance before initiating a zone transfer through the wizard. You must also have the name or IP address of the name server that stores the DNS records.
- To parse data or import it other than through a zone transfer, the data must be accessible through the local network.

Deployment

Installation

To install the Data Import Wizard,

1. Navigate to [this](#) link onto the legacy system, and select the version based on the NIOS version. In this guide, we use a NIOS 8.4 appliance.

OVERVIEW

The Data Import Wizard is a tool designed to help Infoblox® personnel and partners import DNS and DHCP data from legacy systems to an Infoblox appliance or Grid providing DNS, DHCP and/or IPAM services.

The Data Import Wizard can be deployed either as a Java Web Start application or as a Standalone jar file.

Please review table below to select compatible DIW release.

DIW Release	Compatible NIOS Releases
Download DIW 8.4.x	8.4.x
Download DIW 8.3.x	8.3.x - 8.1.x
Download DIW 8.0.x	7.2.x - 8.0.x
Download DIW 7.1.x	6.11.x - 7.1.x
Download DIW 6.10.x	6.8.x - 6.10.x
Download DIW 6.7.x	6.7.x



- On the newly opened link, click on the first [click here](#) option.

Data Import Wizard 8.4.0

To download the Data Import Wizard, [click here](#).

MD5 Checksum: ed0ec04c7090b8fd038942a60b1c93b0

To download the Release Notes, [click here](#).

Java Web Start

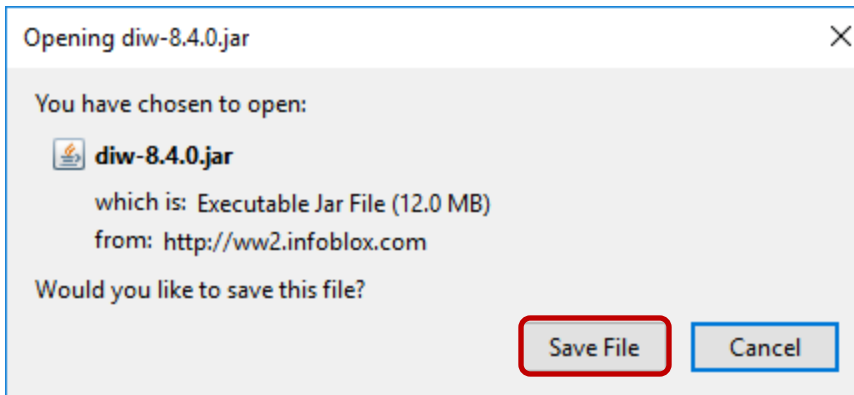
Download the wizard using the links below, which will install a wizard icon on your desktop. Follow the instructions in the left panel of the wizard to import your data.

To download the Data Import Wizard, [click here](#).

Standalone Mode

This allows you to download and save the DIW application as an executable jar file. After saving the jar file to a location of your choice, use the following instructions to launch the DIW application.

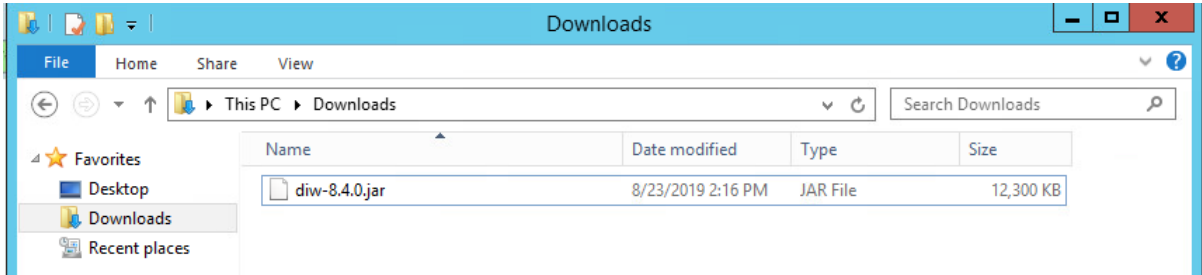
3. In the pop-up, click on the **Save File** option.



Import Data from Microsoft Server

Browse data from the legacy system

1. Navigate to your file manager and double-click on it to launch the downloaded file.



2. This will open the Data Import Wizard.
3. Click on **Next**



4. Select the **Parsing/Browsing Only** option and click on **Next**

Select an Import Operation Mode

The Data Import Wizard can import DNS, DHCP or TFTP/File data to an independent Infoblox appliance or to the Grid master, which in turn distributes it to the other members in the grid. The wizard can also parse data without connecting to an appliance so you can view the data before importing it.

Import to Infoblox Appliance, or generate a CSV file

The Infoblox appliance must be configured and operational before attempting to import data.

1. Select **Import to Infoblox Appliance, or generate a CSV file**.
2. Specify the appliance to which you want to import data:
 - For an independent appliance, enter its hostname or IP address.

Version: 8.4.0

Compatible with NIOS versions:

8.1, 8.2, 8.3, 8.4.

Which mode of data import would you like to use?

Import to Infoblox appliance, or generate a CSV file(s)

Hostname:

Username:

Password:

Use the SSL client authentication file [Personal Information Exchange - PKCS #12]

The password for the private key:

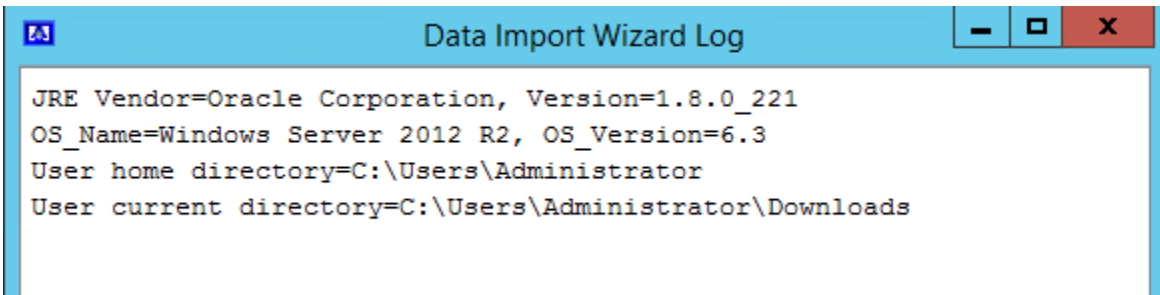
Parsing/Browsing Only

<< Back

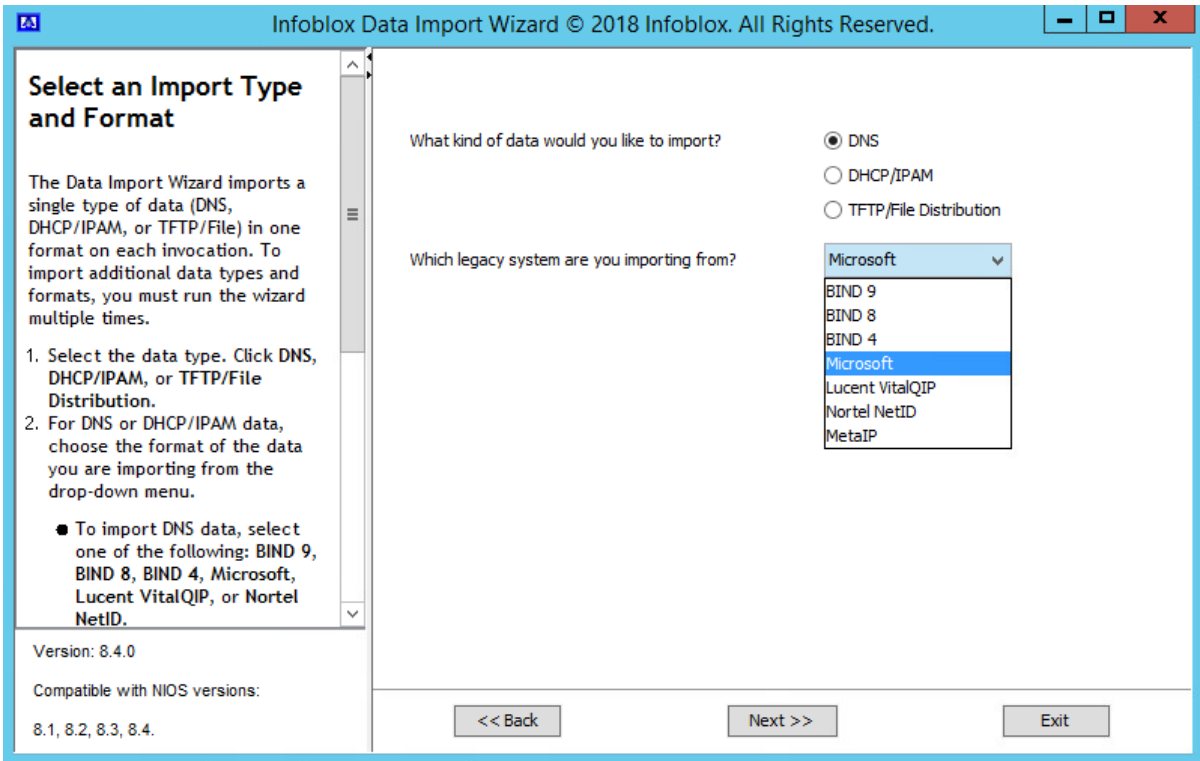
Next >>

Exit

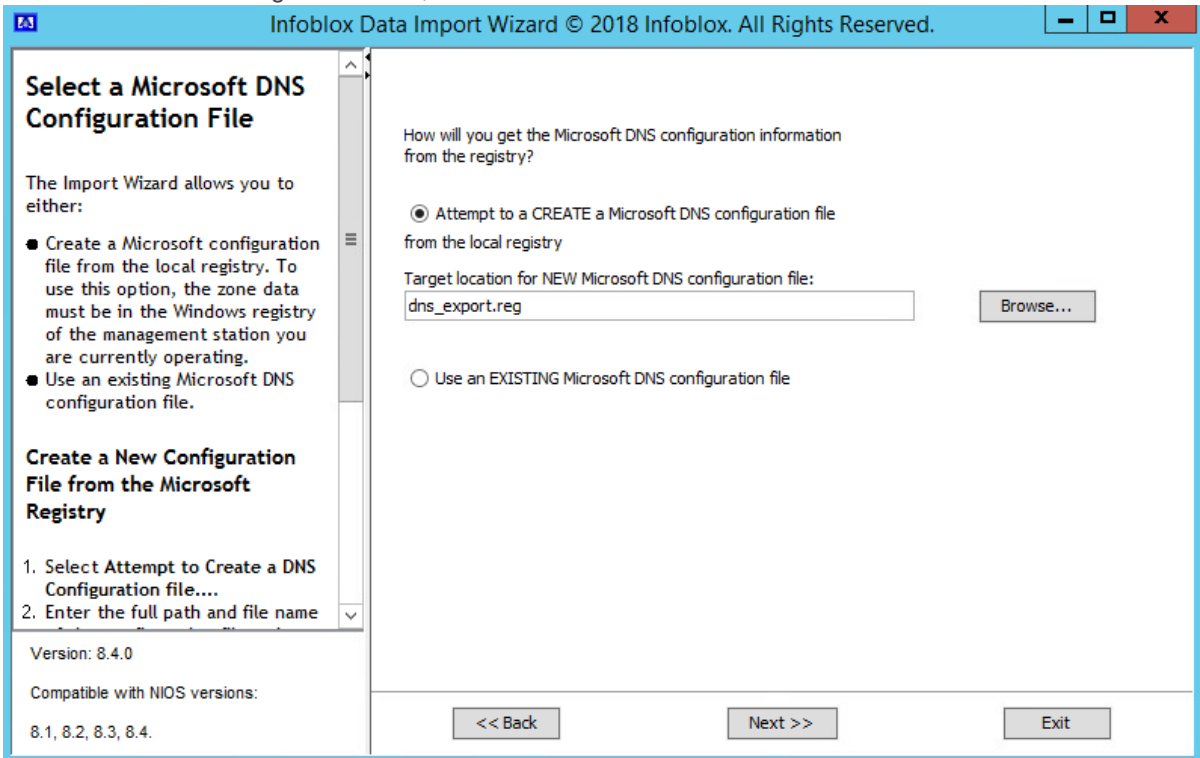
5. This opens up a logging window.



6. On the main wizard, select **DNS** for data to Import and **Microsoft** as the system you are importing from and click on **Next**

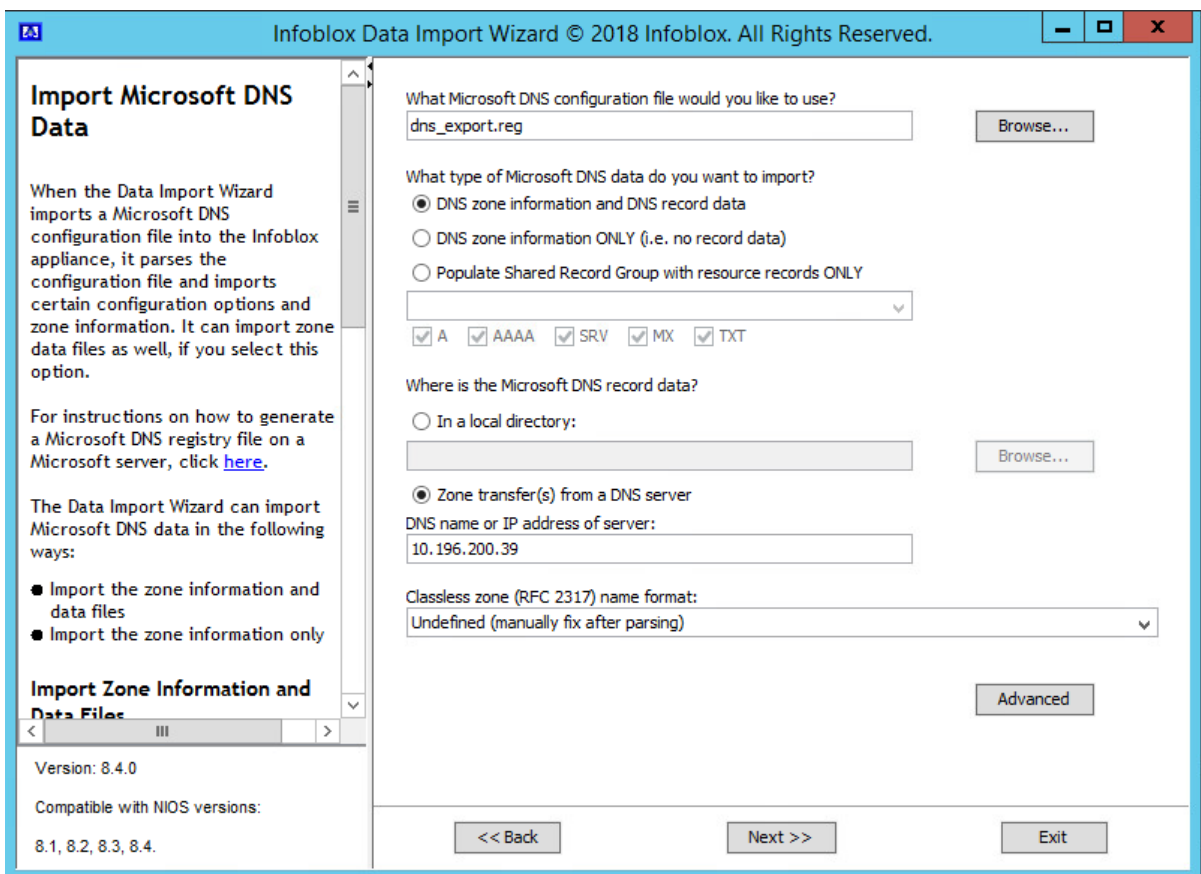


7. Leave the configuration as is, and click on **Next**

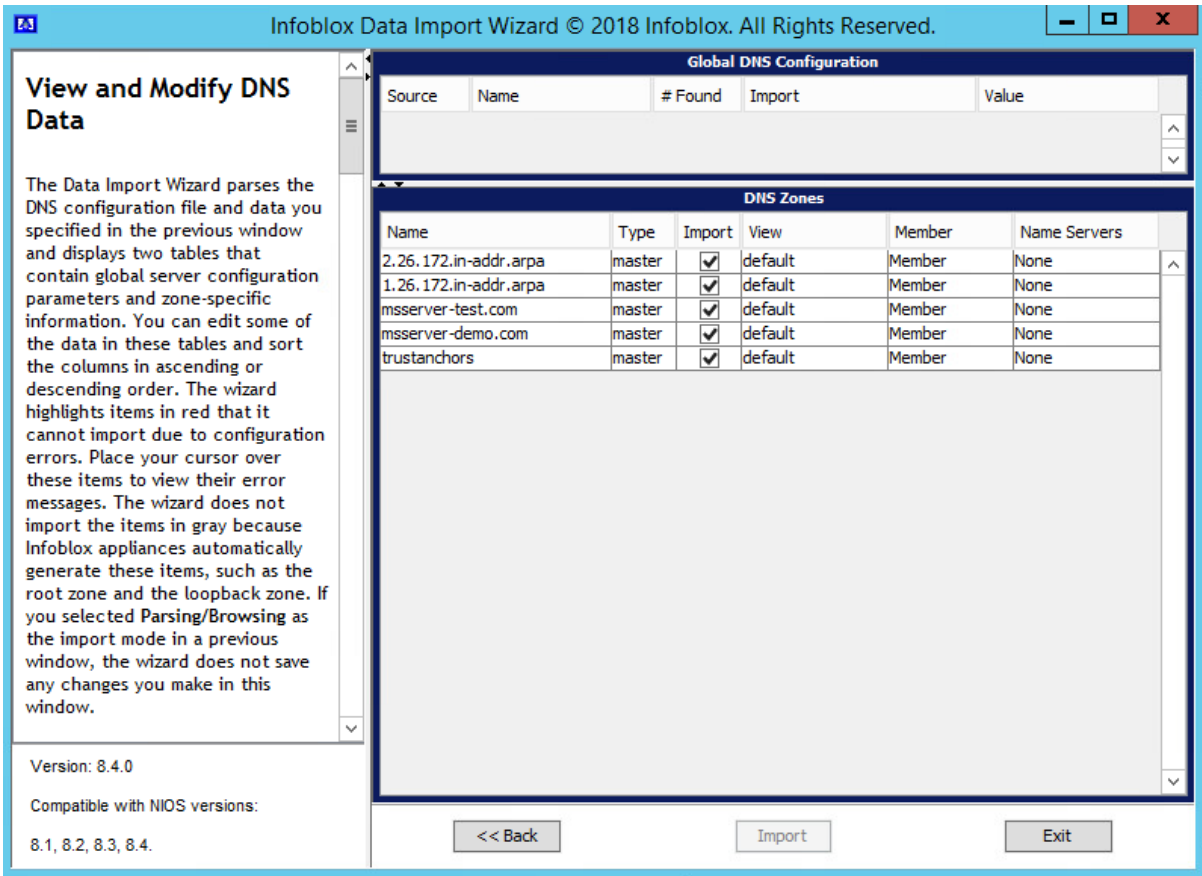


8. Review the configuration on the next screen, make necessary changes
- a. To get the Microsoft DNS Configuration file,
 - i. Click **Start → Run**.

- ii. In the Run dialog box, type **cmd**, and then click **OK**.
 - iii. At the prompt, type the following for each type of server:
 1. For Microsoft 2000 and 2003, type:
regedit /e dns_export.reg
"HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Windows NT\CurrentVersion\DNS Server\Zones"
 2. For Microsoft NT, type:
regedit /e dns_export.reg
"HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\DNS\Zones"
 - iv. If the server has Registry Editor version 5.0 or above, you can also use the Export function to export the DNS data from the following location:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Windows NT\CurrentVersion\DNS Server\Zones.
9. In this guide, we use zone transfers from a Microsoft DNS Server. Enter the respective DNS server.



10. Click on **Next**.
11. The next screen displays all the zones hosted on the Microsoft Server.



12. Once you have verified the data, click on **Exit**

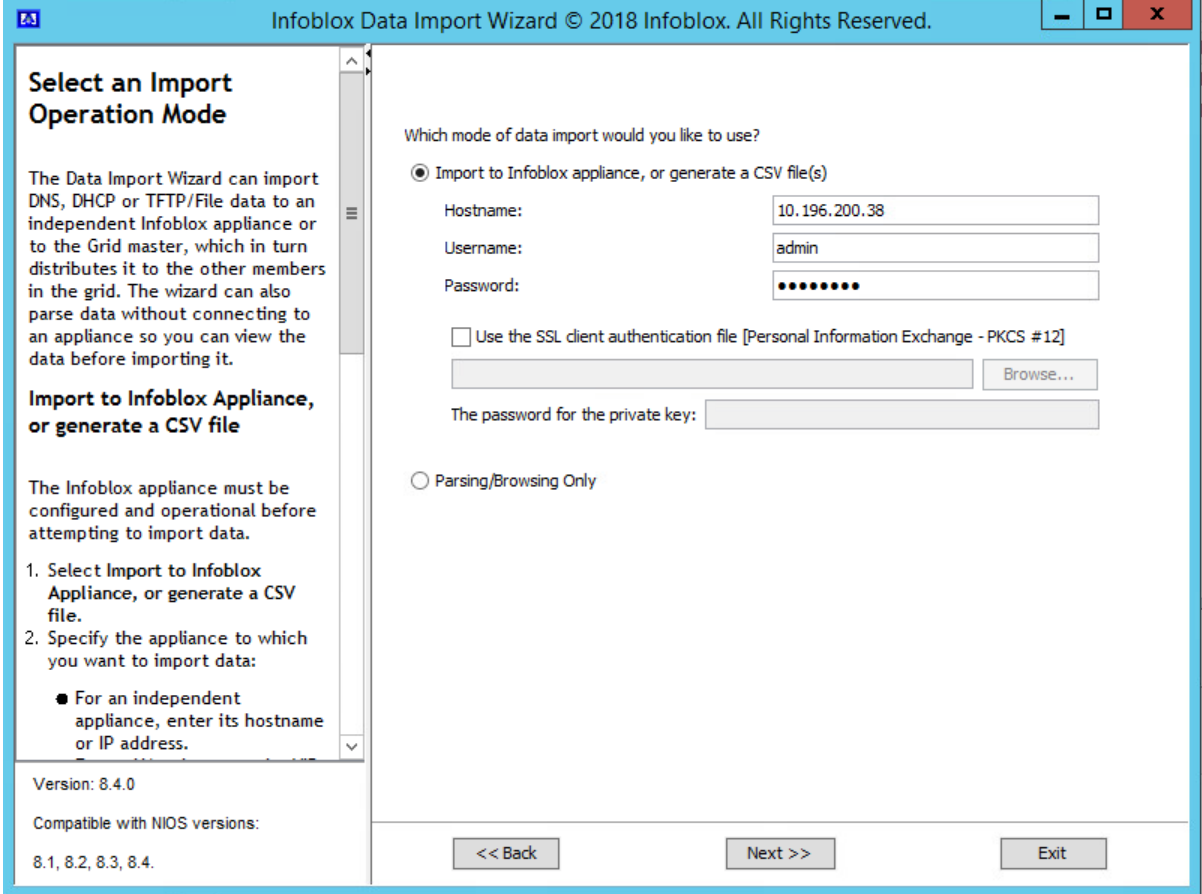
Import DNS data

1. Launch the Data Import Wizard.

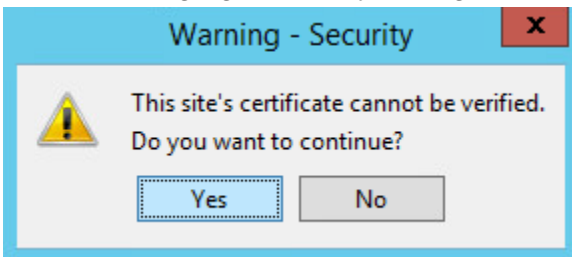
2. Click on **Next**



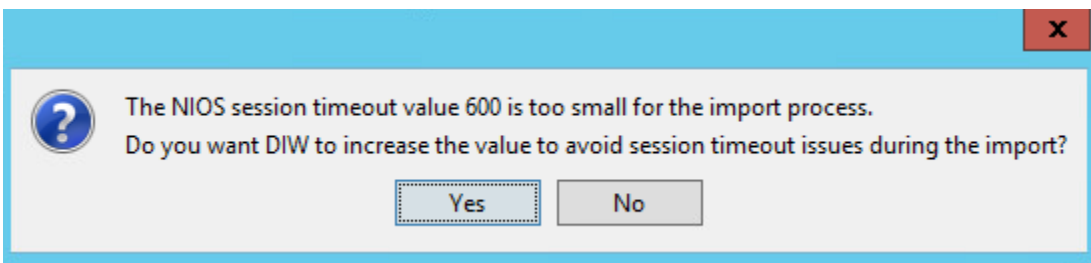
3. Enter the details of the Infoblox Grid Master and its credentials.
4. Click on **Next**



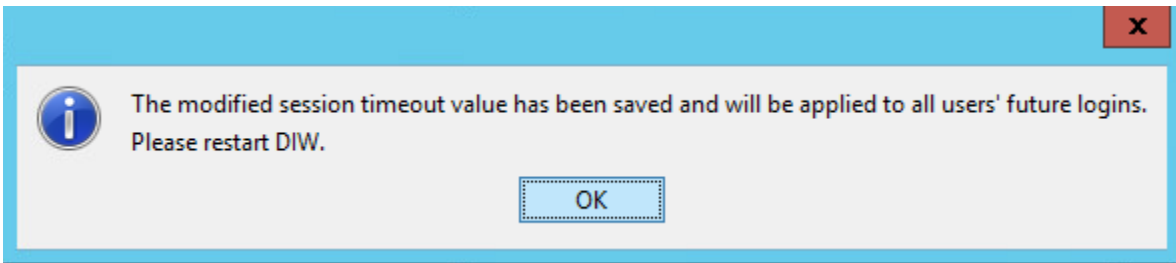
5. You might get a security warning. Click on **Yes**



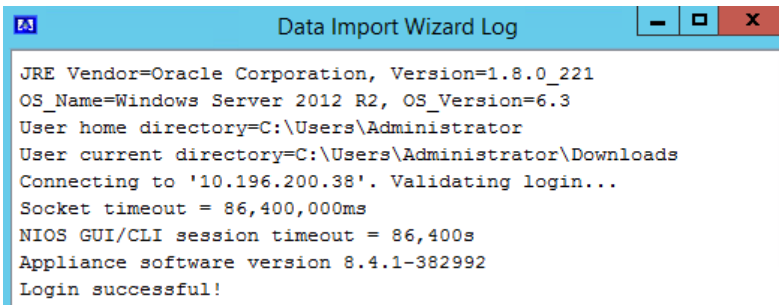
6. You will get a request to change the grid timeout. Click on **Yes**



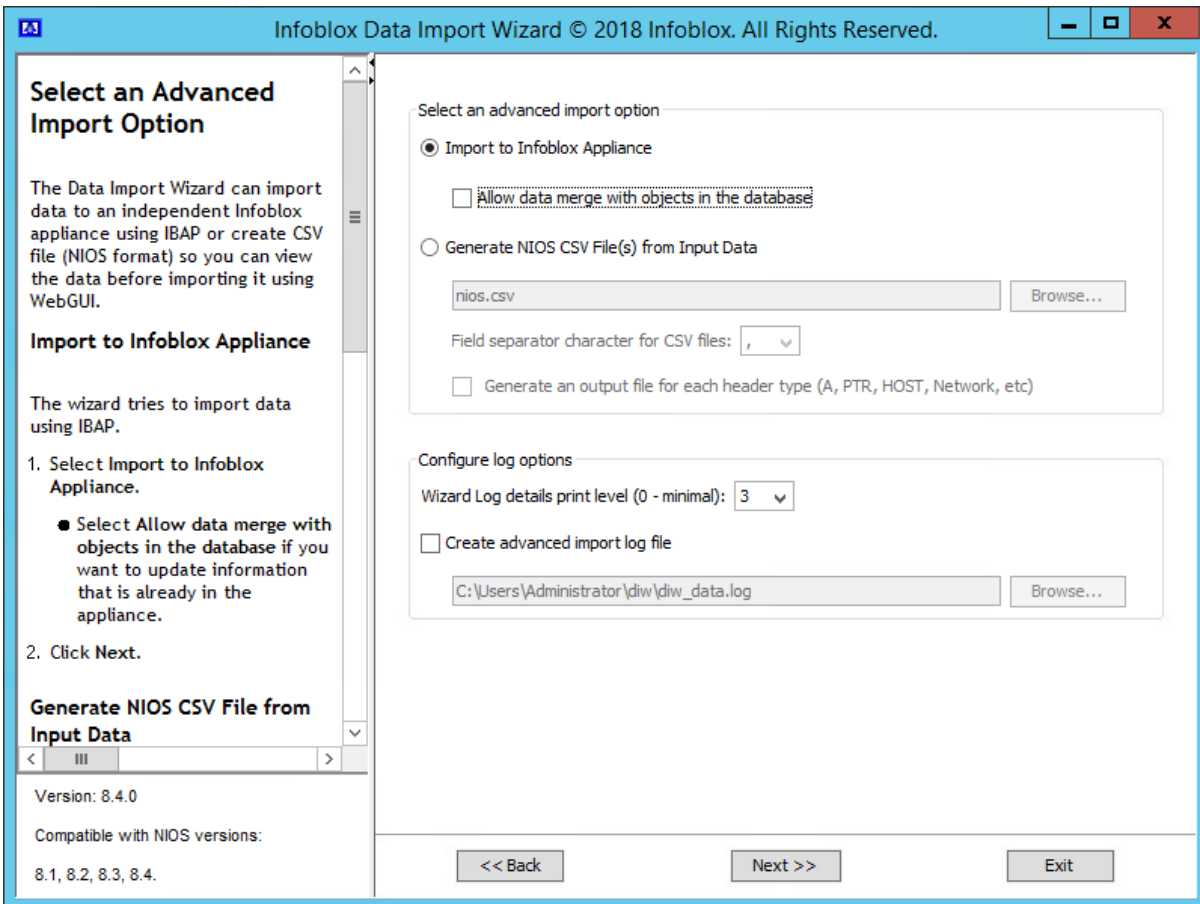
7. Click on **OK**



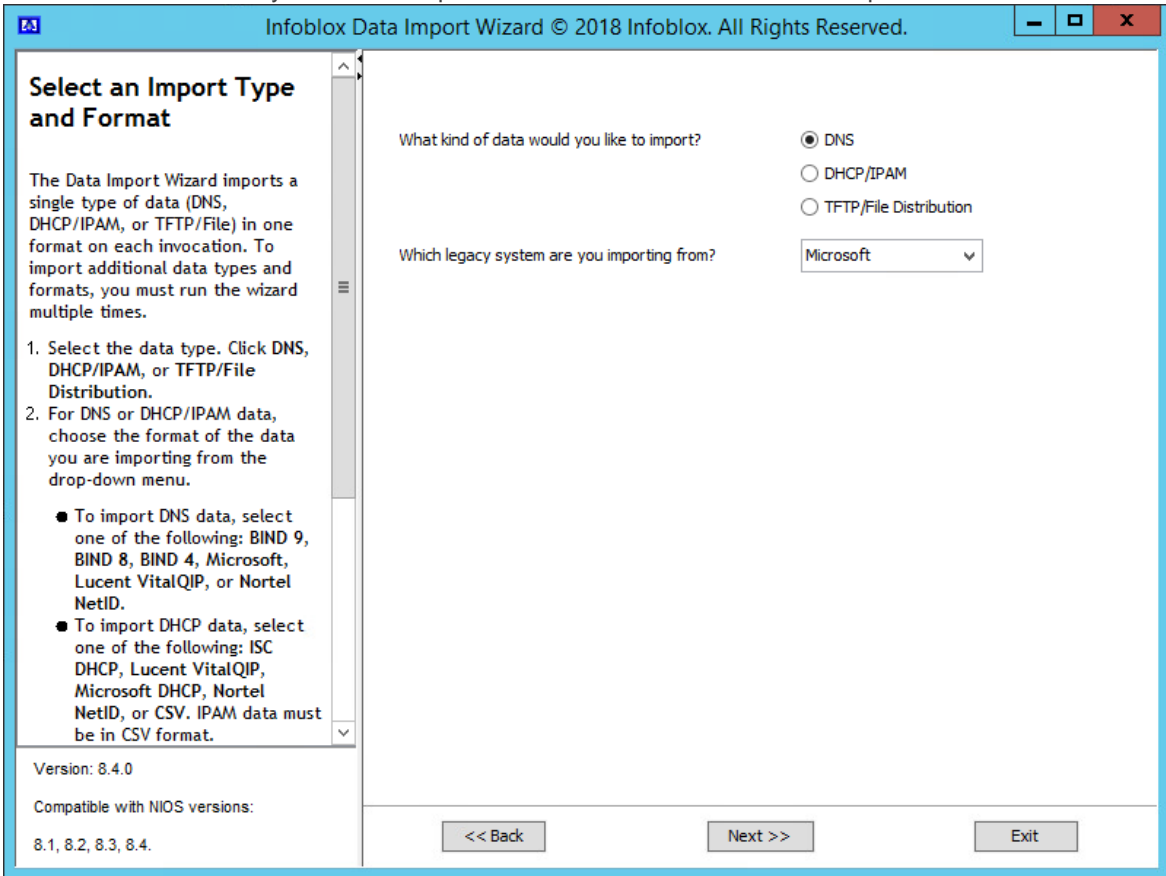
8. Close the wizard and relaunch it.
9. Re run steps 1 to 5.
10. This opens up a logging window



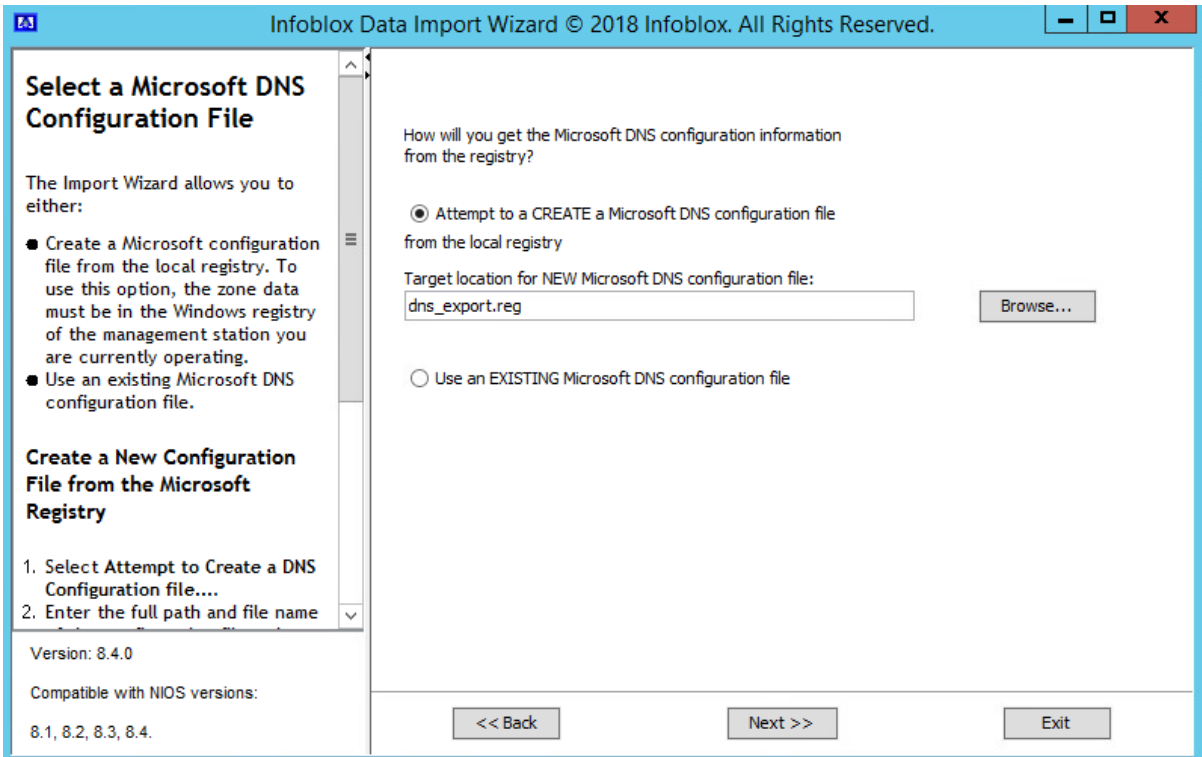
11. On the main wizard, review the options and click on **Next**.



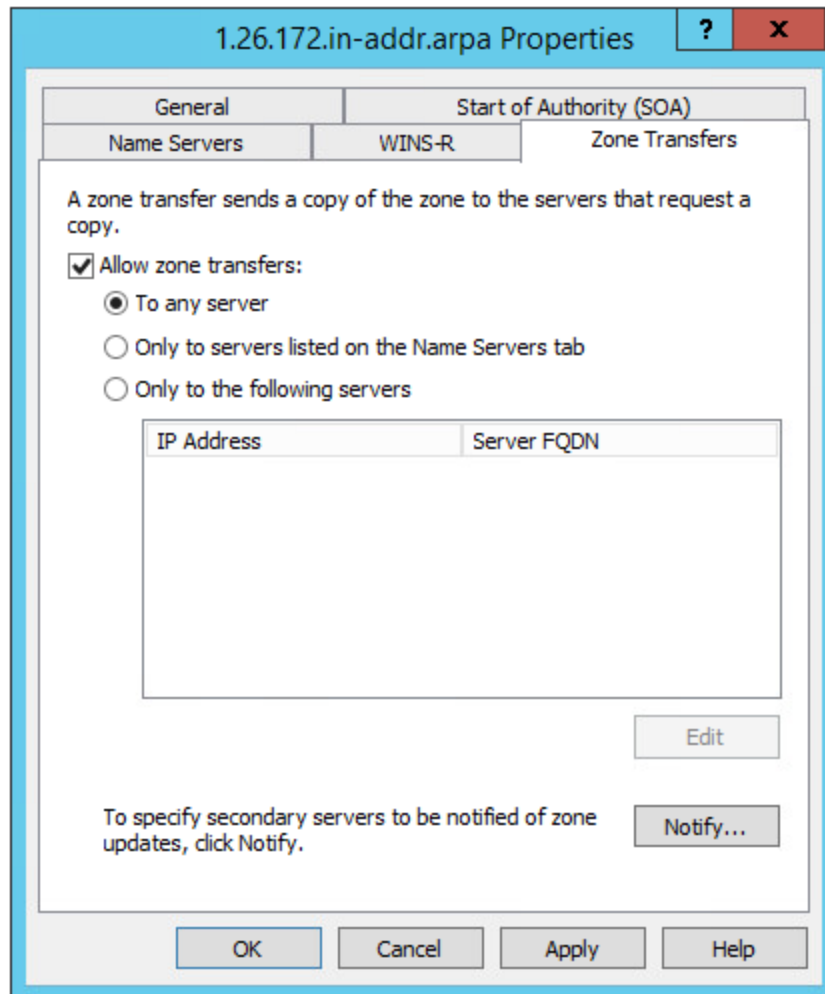
12. Select **DNS** as your data to import and **Microsoft** as the server to import it from.

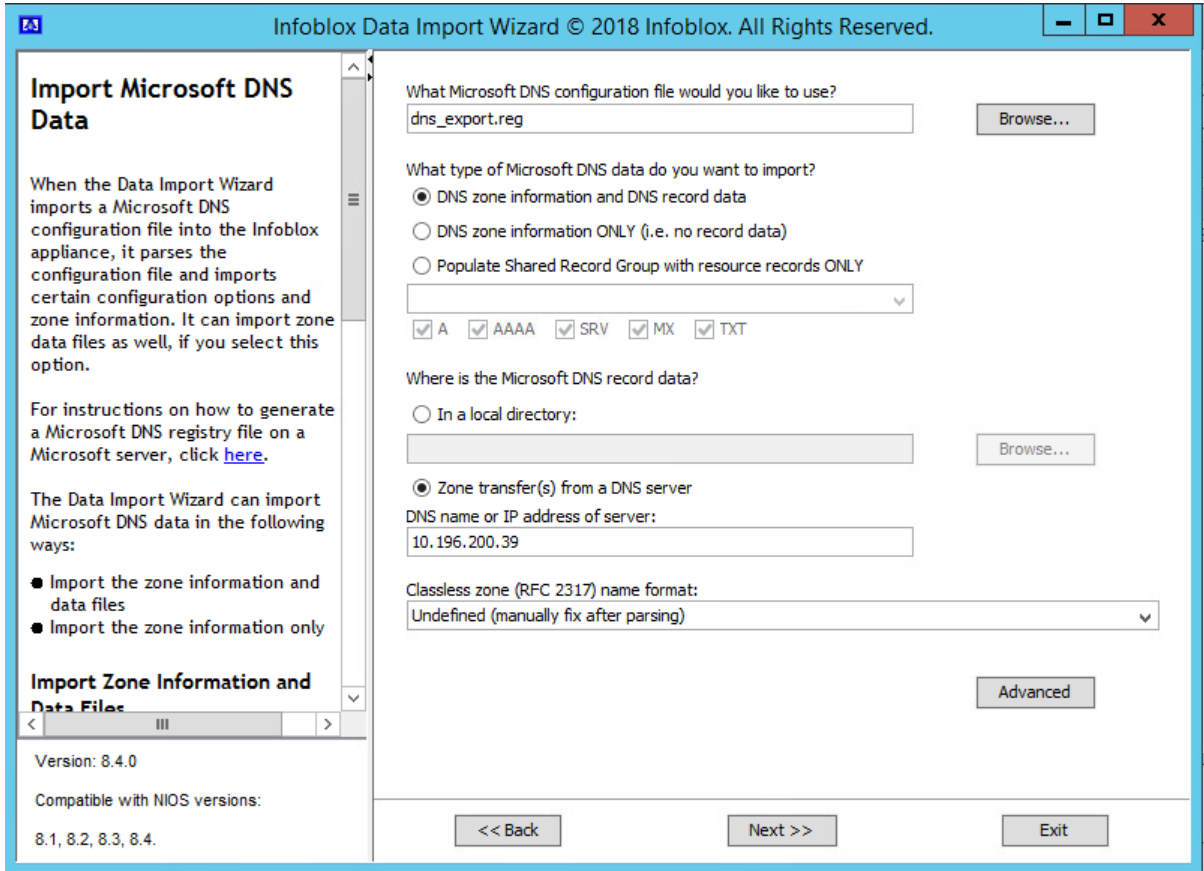


13. Leave the configuration as is, and click on **Next**

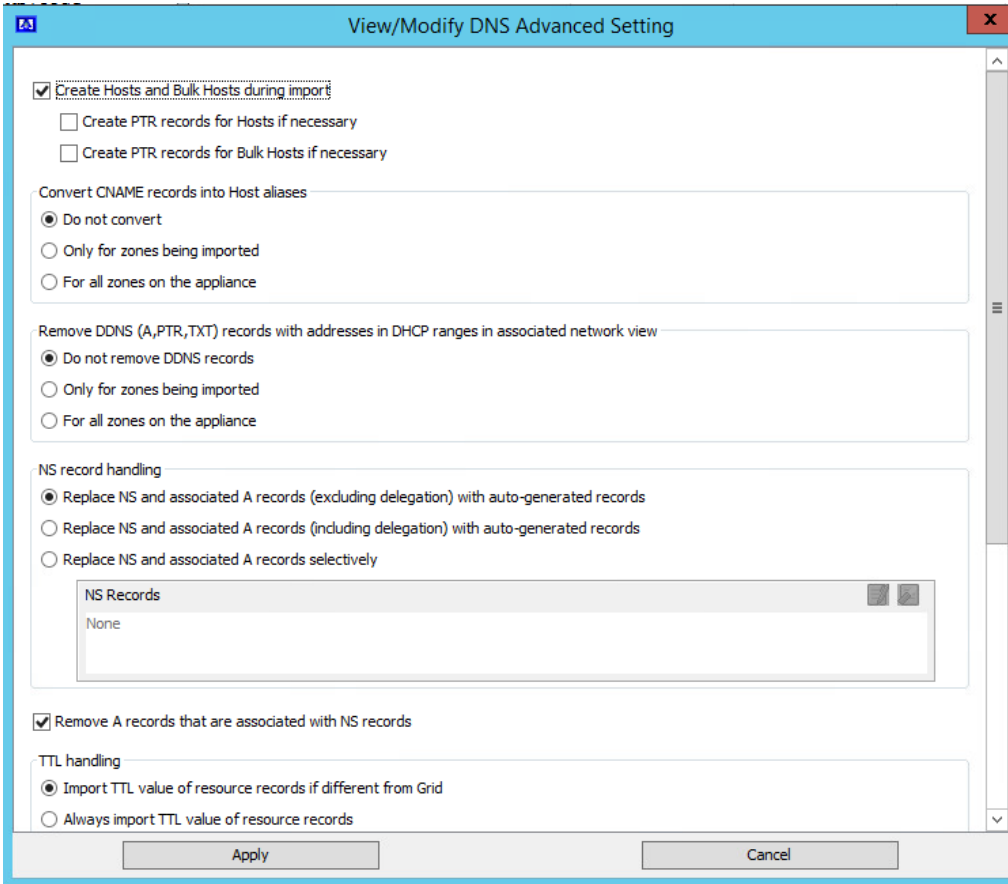


14. Review the configuration on the next screen, make necessary changes
 - a. To get the Microsoft DNS Configuration file,
 - i. Click **Start → Run**.
 - ii. In the Run dialog box, type **cmd**, and then click **OK**.
 - iii. At the prompt, type the following for each type of server:
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regedit /e dns_export.reg
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 2. For Microsoft NT, type:
regedit /e dns_export.reg
"HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\DNS\Zones"
 - iv. If the server has Registry Editor version 5.0 or above, you can also use the Export function to export the DNS data from the following location:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Windows NT\CurrentVersion\DNS Server\Zones.
15. In this guide, we use zone transfers from a Microsoft DNS Server. Enter the respective DNS server.
 - a. Ensure that **Allow zone transfers** is set on all the zones.

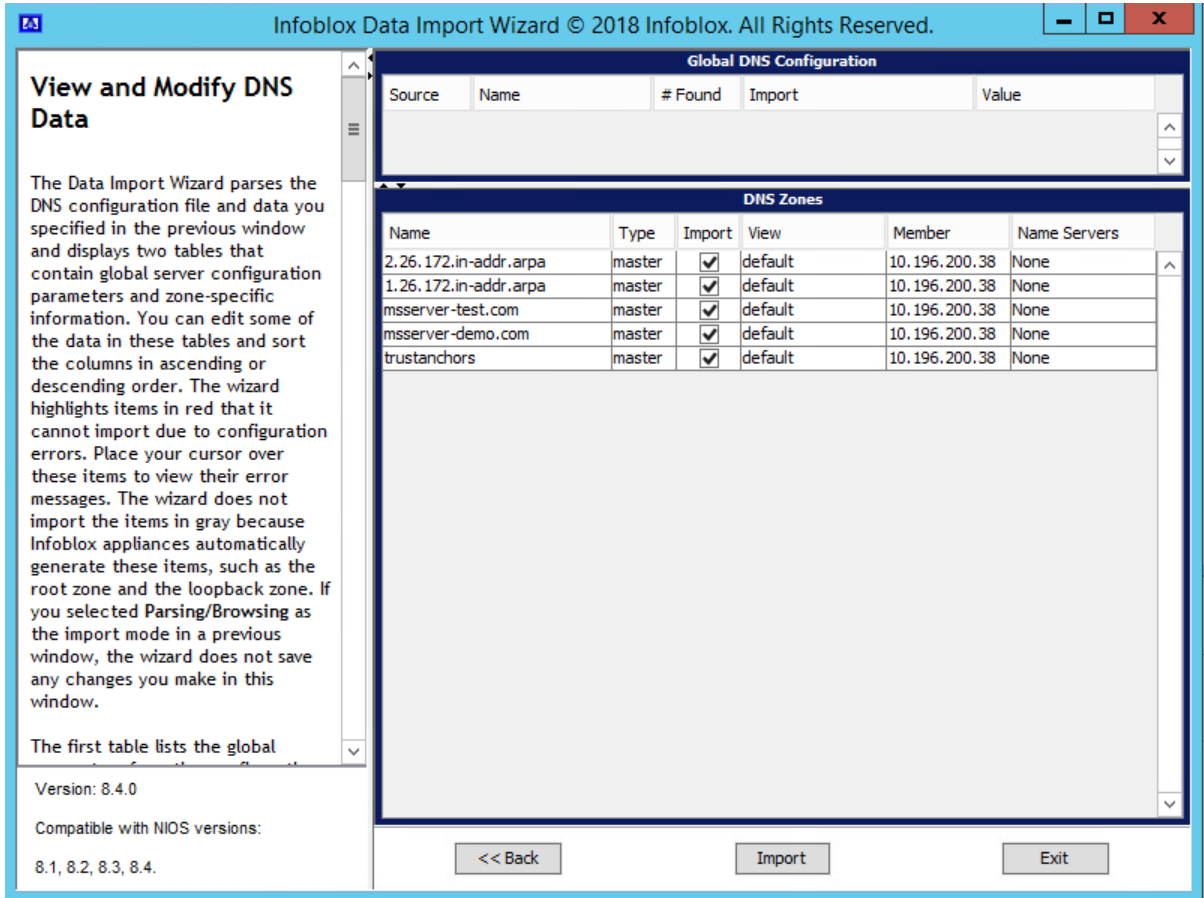




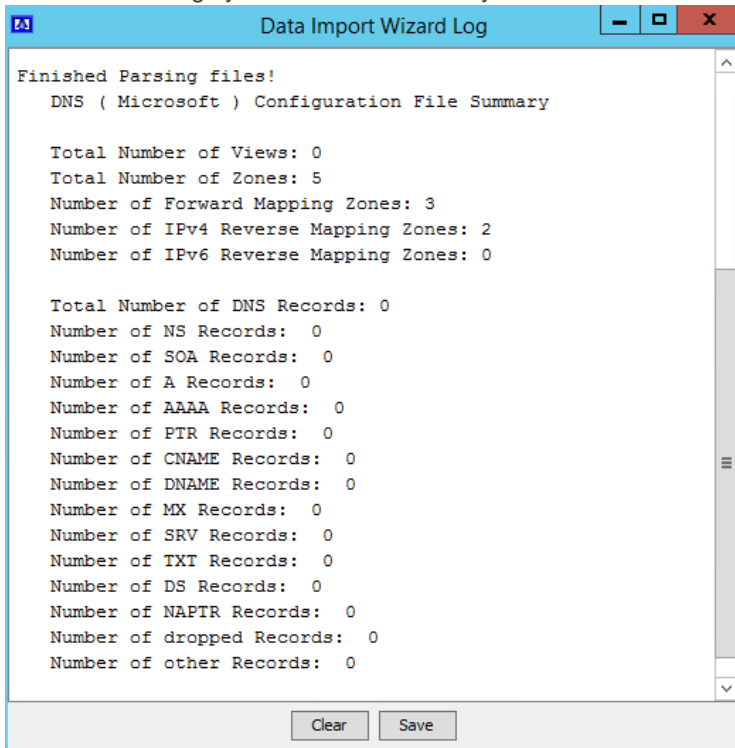
16. Click on **Advanced**.
17. Verify the options and click on **Apply**



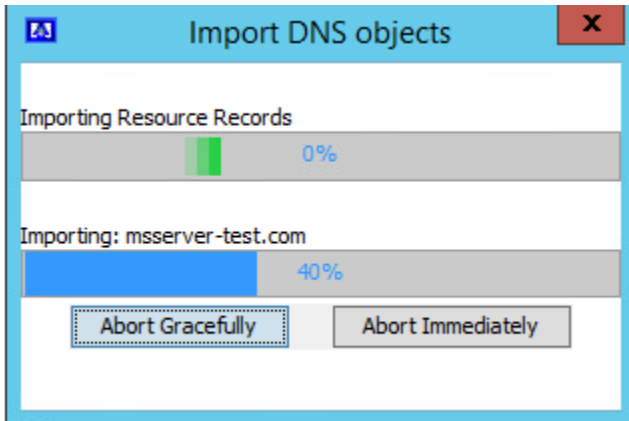
18. Click on **Import**



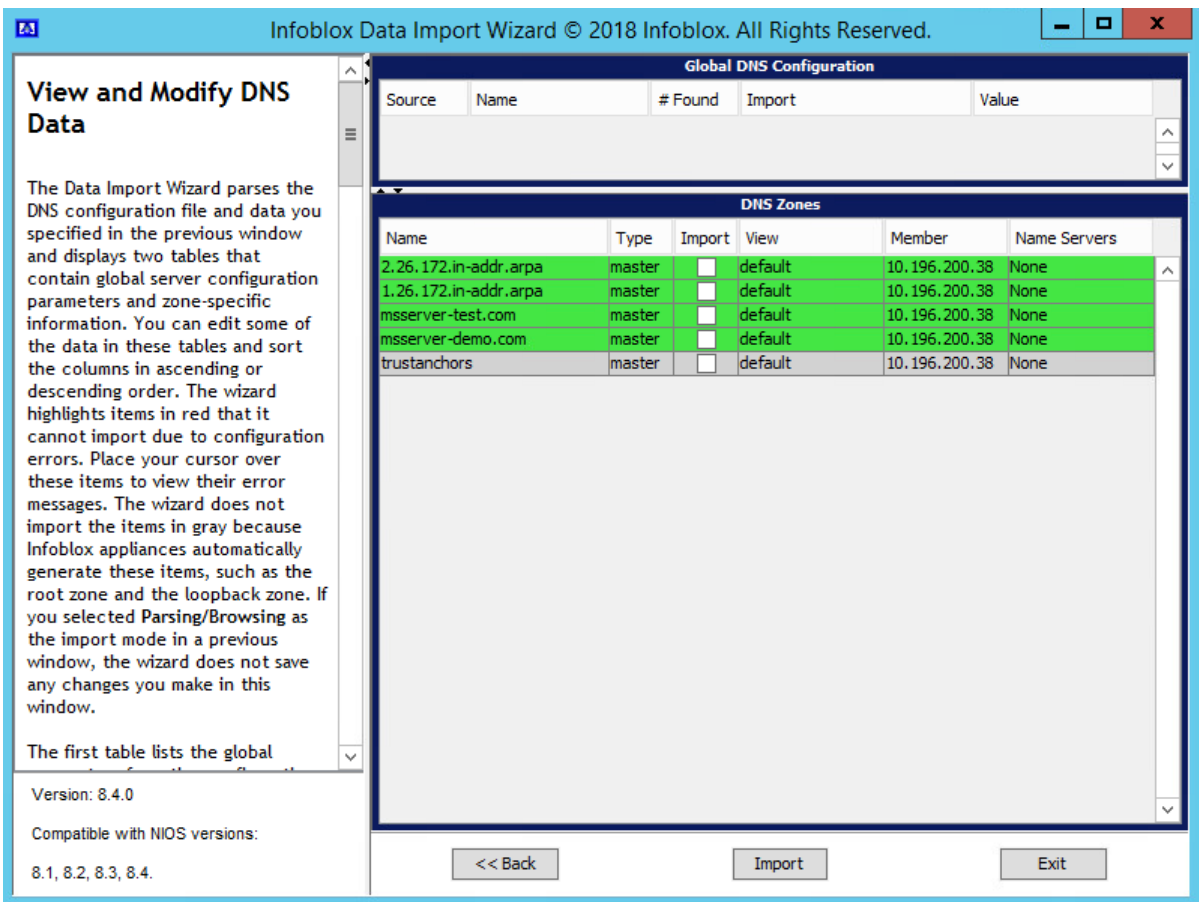
19. In the logs you can see a summary of the zones and records getting imported.



20. You can see the status of the import.



21. Click on **Exit**



22. Launch the Infoblox grid manager from a browser.

23. Navigate to the **Data Management → DNS**.

24. All the zones from the Microsoft Server are imported.

The screenshot shows the Infoblox DNS management interface. The top navigation bar includes 'Dashboards', 'Data Management', 'Smart Folders', 'Grid', and 'Administration'. Under 'Data Management', there are sub-menus for 'IPAM', 'VLANs', 'Super Host', 'DHCP', 'DNS', and 'File Distribution'. The 'DNS' sub-menu is active, showing options for 'Zones', 'Members', 'Name Server Groups', 'Shared Record Groups', 'Subscriber Services Deployment', 'Blacklist Rulesets', 'DNS64 Groups', and 'Query Monitoring'. The 'Zones' sub-menu is selected, displaying a list of zones. The 'default' zone is selected, and its records are listed in a table.

NAME	GRID PRIMARY SERVERS	TYPE	COMMENT	MULTI-MASTER Z...	MONITORED SINCE	LAST QUERIED	RECORDS MONITO...	SITE
msserver-demo.com	gridmaster.diw-demo.com	Authoritative		No	Not Monitored	Not Monitored	No	
msserver-test.com	gridmaster.diw-demo.com	Authoritative		No	Not Monitored	Not Monitored	No	
0.0.127.in-addr.arpa		Auto-created		No	Not Monitored	Not Monitored	N/A	
1.26.172.in-addr.arpa	gridmaster.diw-demo.com	Authoritative		No	Not Monitored	Not Monitored	No	
2.26.172.in-addr.arpa	gridmaster.diw-demo.com	Authoritative		No	Not Monitored	Not Monitored	No	
1.0.0.0.0.0.0.0.0.0...		Auto-created		No	Not Monitored	Not Monitored	N/A	

25. Click into one of the zones. You will see the records listed.

The screenshot shows the Infoblox DNS management interface with the 'msserver-demo.com' zone selected. The interface displays the zone name, its type ('Authoritative Zone'), and various icons. Below the zone name, there are tabs for 'Records' and 'Subzones'. The 'Records' tab is active, showing a list of records for the zone. The records are displayed in a table with columns for NAME, TYPE, DATA, RECORD SOURCE, PRINCIPAL, and PROTECTED.

NAME	TYPE	DATA	RECORD SOURCE	PRINCIPAL	PROTECTED
	SOA Record	Serial: 8 MNAME: gridmaster.diw-c RNAME: hostmaster@ms Refresh: 900 Retry: 600 Expire: 86400 Negative Caching TTL: 3600	System		
	NS Record	gridmaster.diw-demo.com	System		
	MX Record	Preference: 10 Mail Exchanger: mx.msserver-de	Static		No
host	Host	172.26.1.200	Static		No
mx	Host	172.26.1.155	Static		No
ww	CNAME Record	www.msserver-demo.com	Static		No
www	Host	172.26.1.250	Static		No

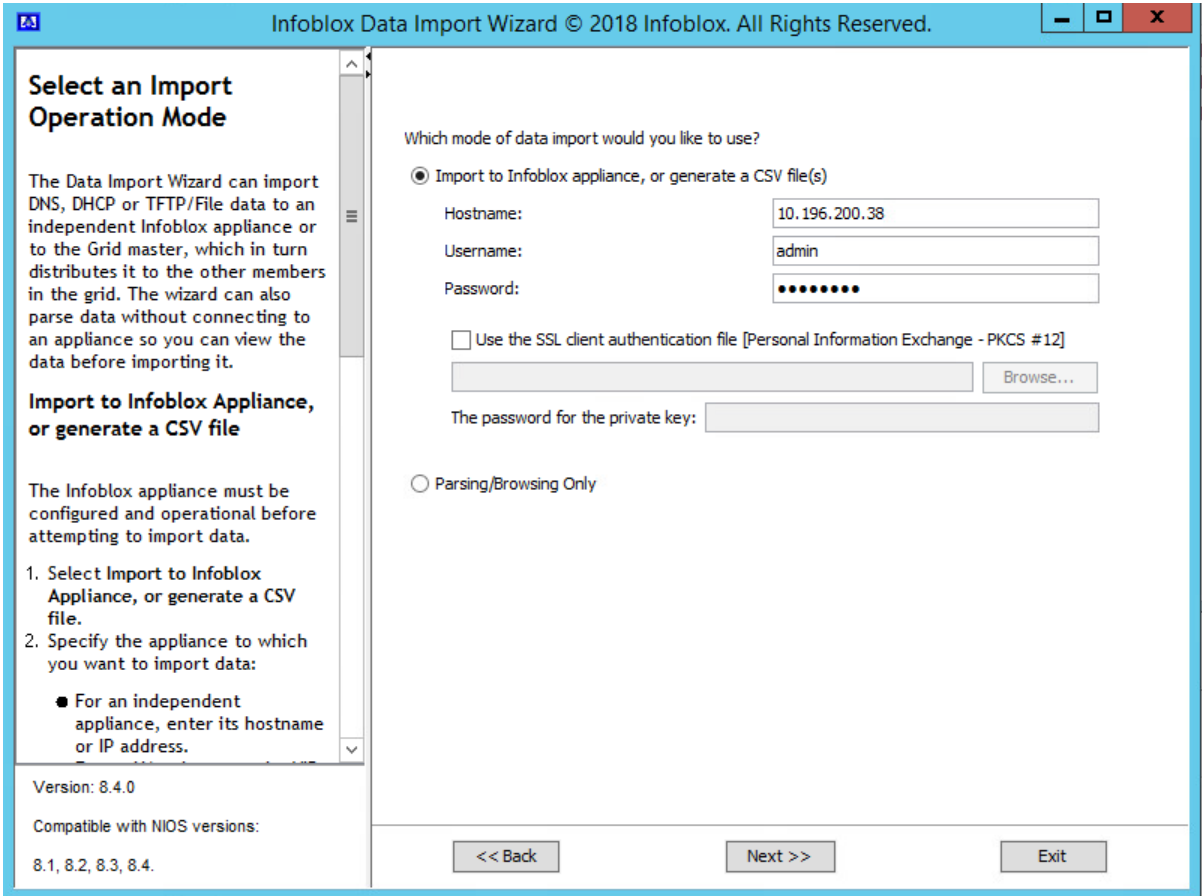
Import DHCP data

1. Launch the Data Import Wizard.

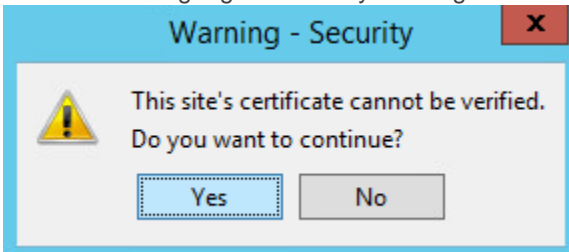
2. Click on **Next**



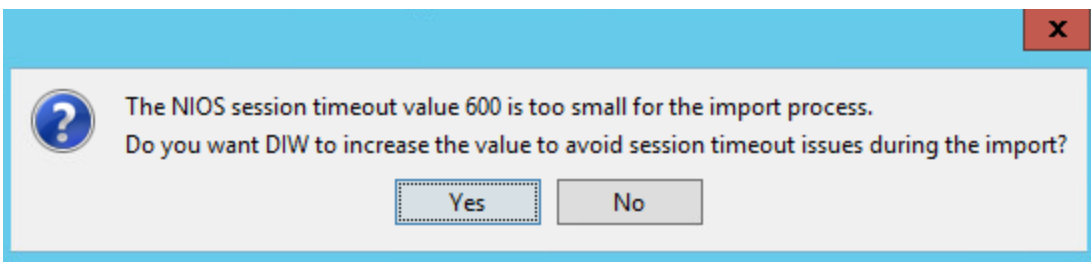
3. Enter the details of the Infoblox Grid Master and its credentials.
4. Click on **Next**



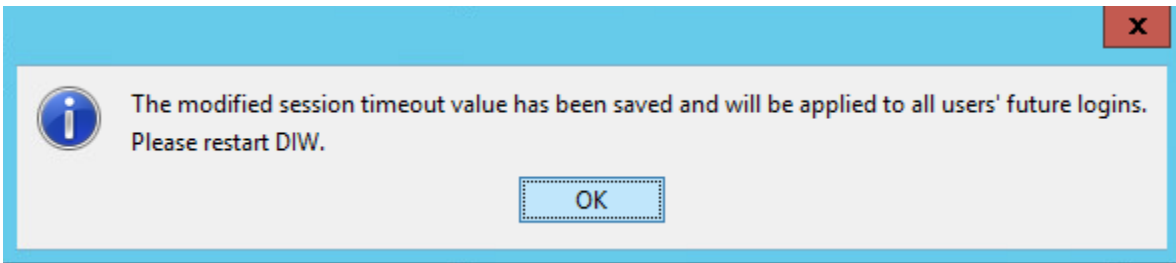
5. You might get a security warning. Click on **Yes**



6. You will get a request to change the grid timeout. Click on **Yes**



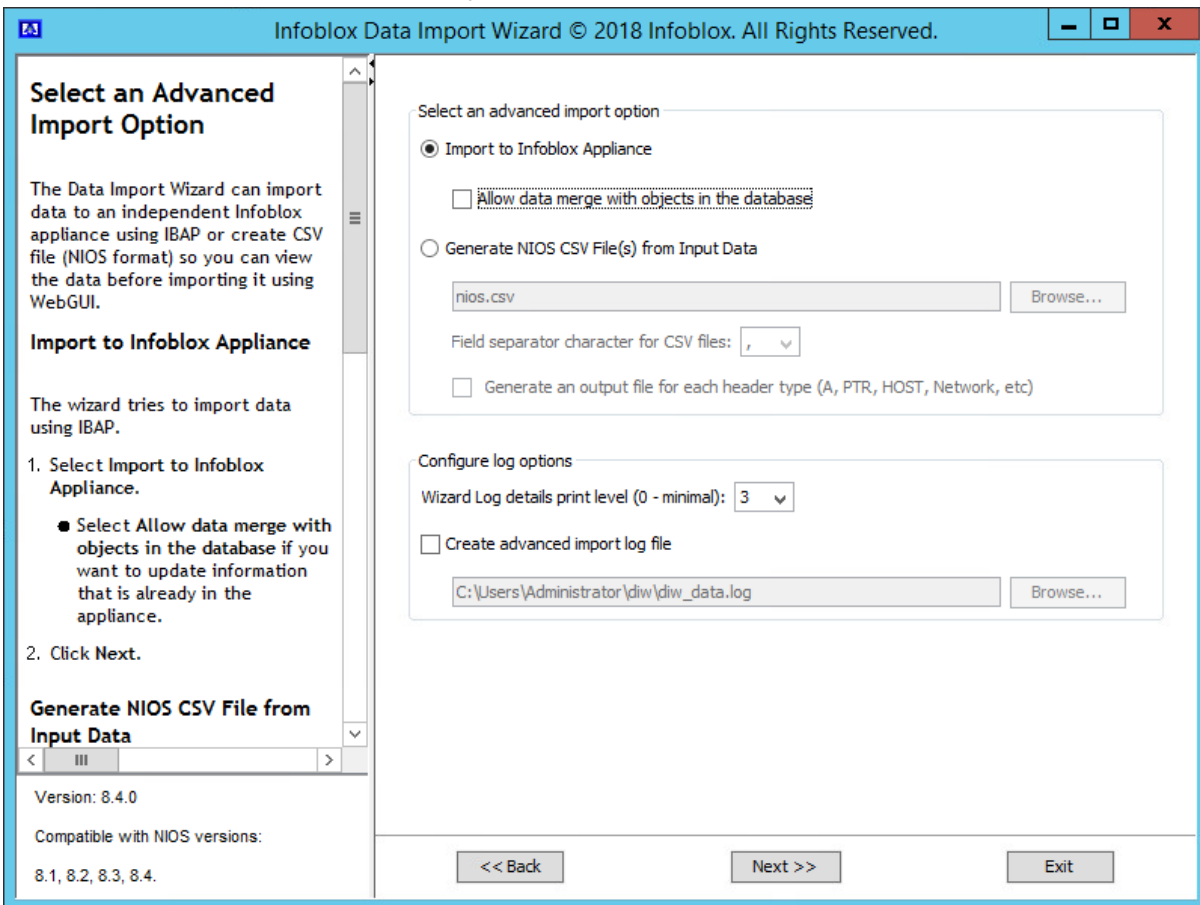
7. Click on **OK**



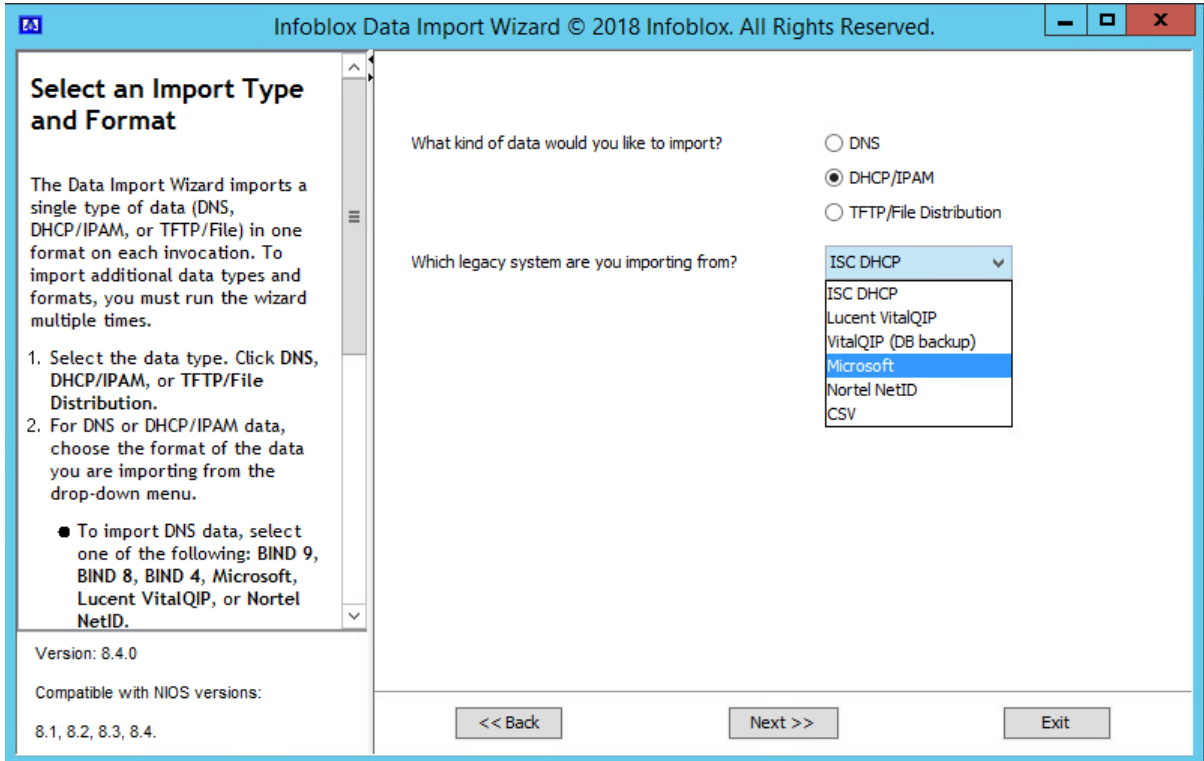
8. Close the wizard and relaunch it.
9. Re run steps 1 to 5.
10. This opens up a logging window



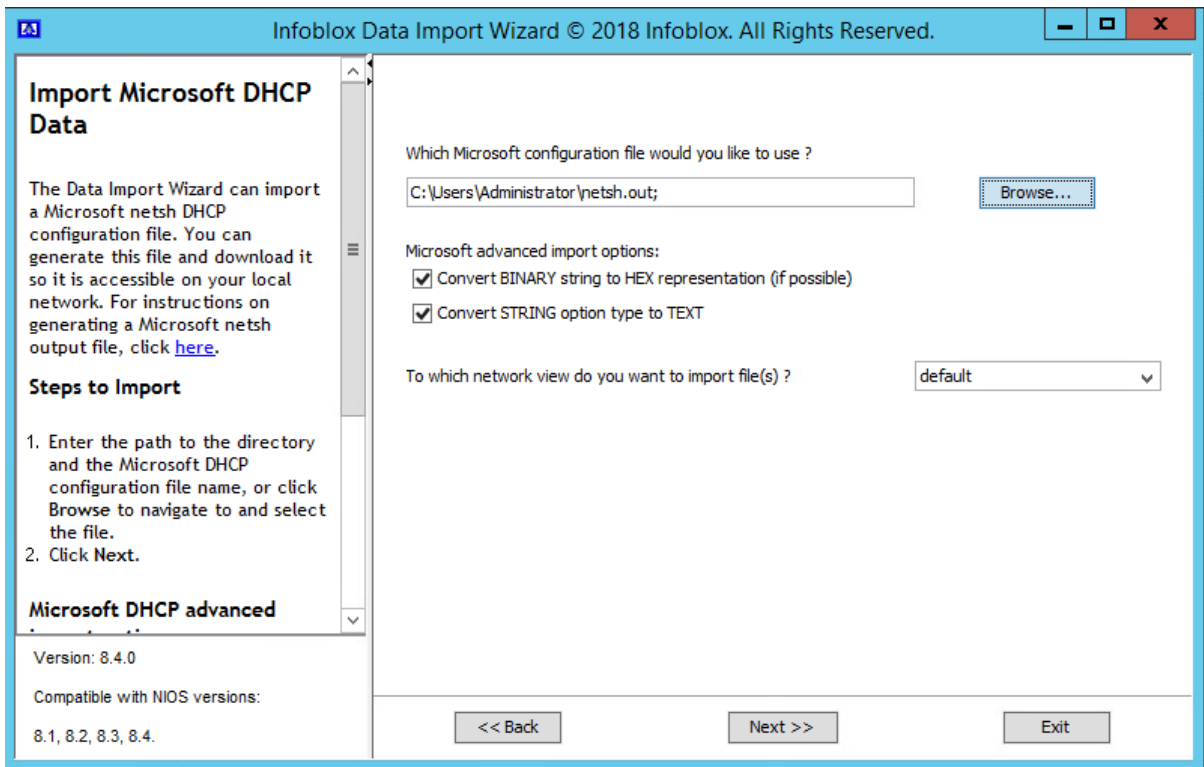
11. On the main wizard, review the options and click on **Next**.



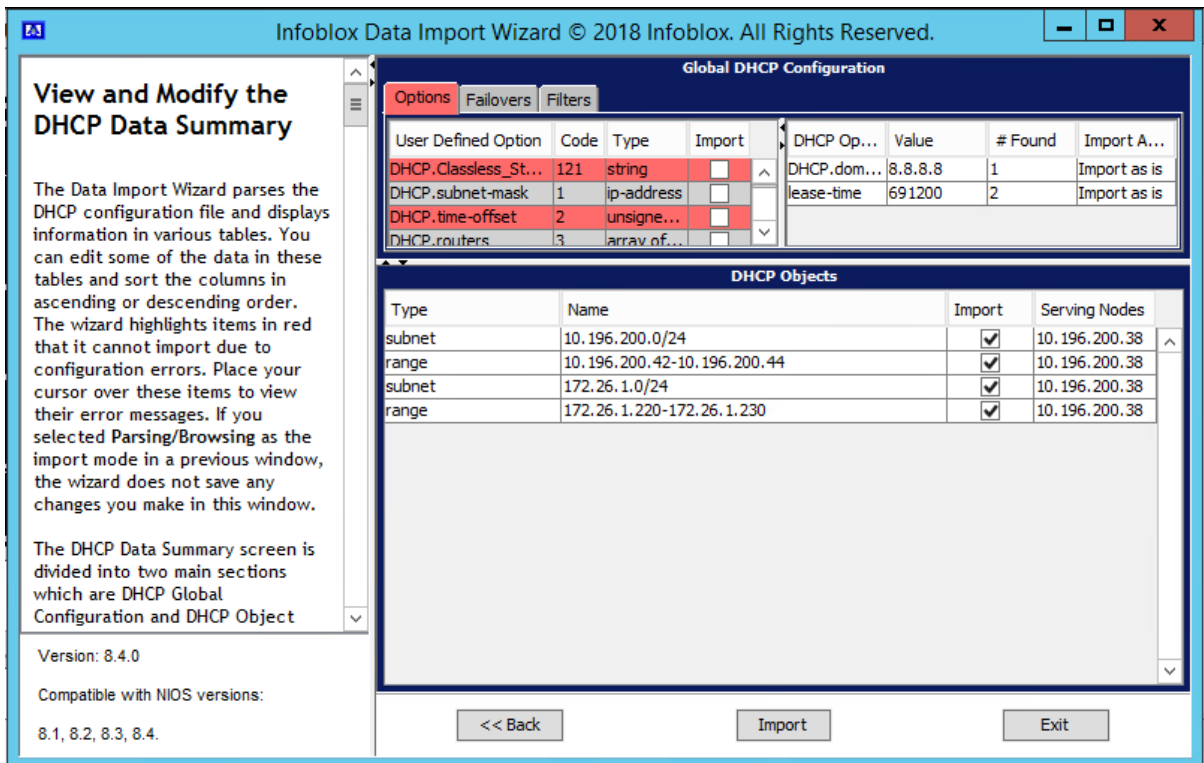
12. Select **DHCP** as your data to import and **Microsoft** as the server to import it from



13. Review the configuration on the next screen, make necessary changes
 - a. To generate a Microsoft netsh file, do the following on the Microsoft server:
 - i. Click **Start -> Run**.
 - ii. In the *Run* dialog box, enter:
 "netsh dhcp dump [server ip_addr] > netsh.out" for Windows 2000;
 - iii. or
 "netsh dhcp server dump [{\\ServerName | ServerIP}] > netsh.out" for Windows 2003/2008/2012.

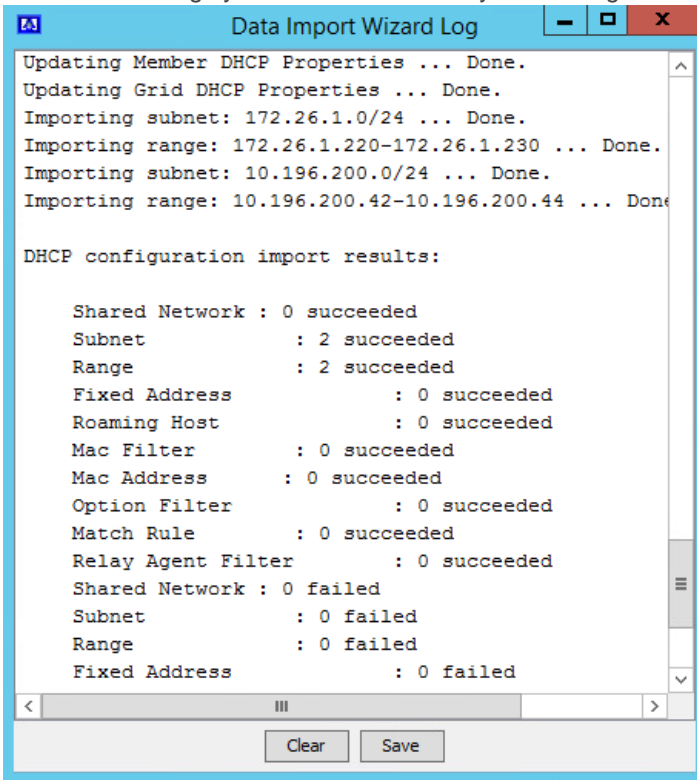


14. Click on **Next**.

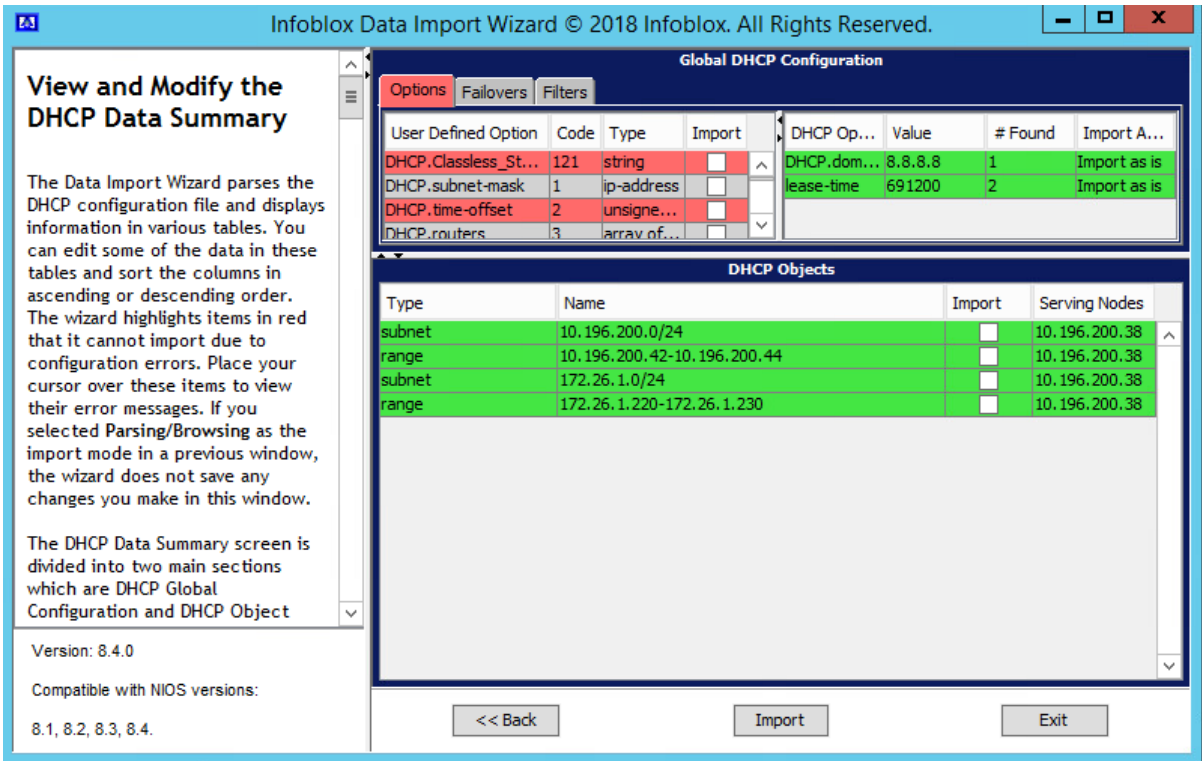


15. Verify the data and click on **Import**

16. In the logs you can see a summary of the ranges and subnets getting imported.



17. Click on **Exit**



18. Launch the Infoblox grid manager from a browser.

19. Navigate to the **Data Management → DHCP**.

20. All the subnets from the Microsoft Server are imported.

The screenshot shows the Infoblox DHCP configuration page. The top navigation bar includes 'Dashboards', 'Data Management', 'Smart Folders', 'Grid', and 'Administration'. Below this, there are sub-navigation tabs for 'IPAM', 'VLANs', 'Super Host', 'DHCP', 'DNS', and 'File Distribution'. The 'DHCP' tab is active. On the left, there is a 'Finder' sidebar with options like 'Smart Folders', 'Bookmarks', 'Recycle Bin', and 'URL Links'. The main content area shows a 'Networks' tab with sub-tabs for 'Members', 'Leases', 'IPv4 Filters', 'Option Spaces', 'Fingerprints', and 'Templates'. Under 'Networks', there are sub-tabs for 'Networks' and 'Shared Networks'. A 'Quick Filter' is set to 'None'. Below the filter, there is a table of networks:

NETWORK	COMMENT	IPv4 DHCP UTIL...	DISCOVER NOW	DISCOVERY ENGI...
10.196.200.0/24	External Network	0.0% (0/3)		None
172.26.1.0/24	Internal Network	0.0% (0/11)		None

21. Click into one of the subnets. You will see the ranges listed.

The screenshot shows the Infoblox DHCP configuration page with details for a specific subnet. The top navigation bar and sub-navigation tabs are the same as in the previous screenshot. The 'DHCP' tab is active. The main content area shows a 'Networks Home' view for the subnet '172.26.1.0/24'. It is identified as an 'IPv4 Network' and has a 'Go to IPAM View' link. Below this, there is a 'Quick Filter' set to 'None'. Below the filter, there is a table of IP addresses:

IP ADDRESS	TYPE	NAME	IPv4 DHCP UTIL...
172.26.1.220-172.26.1.230	IPv4 DHCP Range		0.0% (0/11)

Import Data from Bind Server

Import DNS data

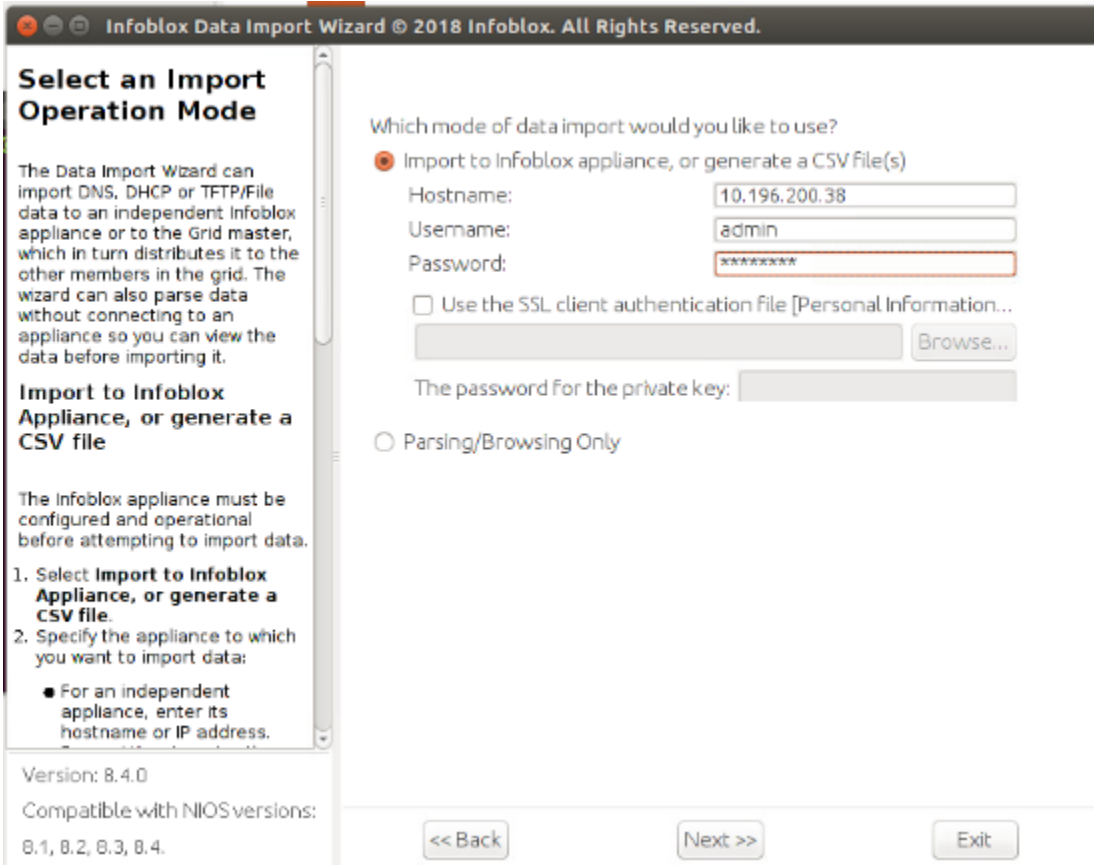
1. Launch the Data Import Wizard by running the following command from within a terminal:
`java -jar diw-8.4.0.jar`

```
tme@bind9-server: ~/Downloads
tme@bind9-server:~/Downloads$ java -jar diw-8.4.0.jar
```

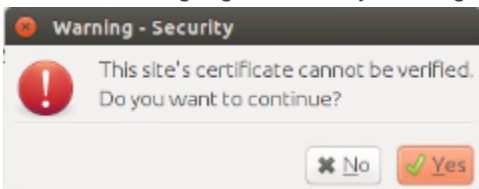
2. Click on **Next**



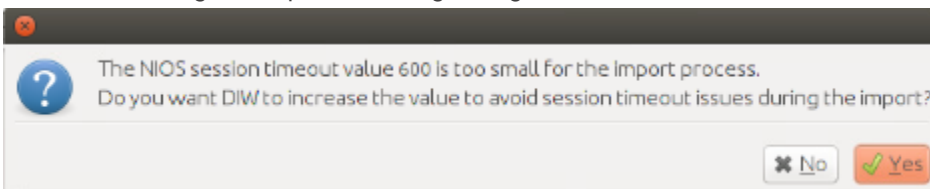
3. Enter the details of the Infoblox Grid Master and its credentials.
4. Click on **Next**



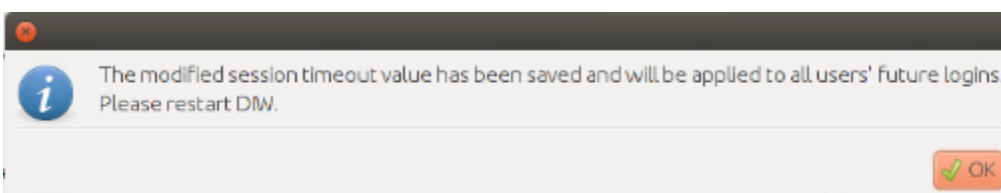
5. You might get a security warning. Click on **Yes**



6. You will get a request to change the grid timeout. Click on **Yes**



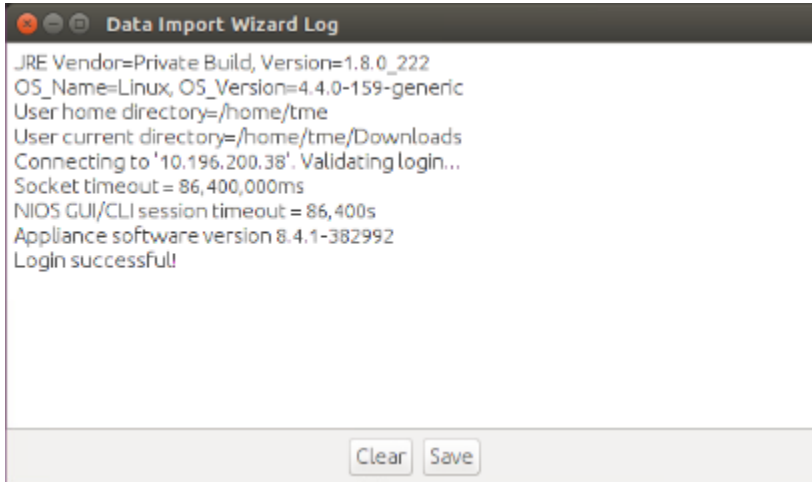
7. Click on **OK**



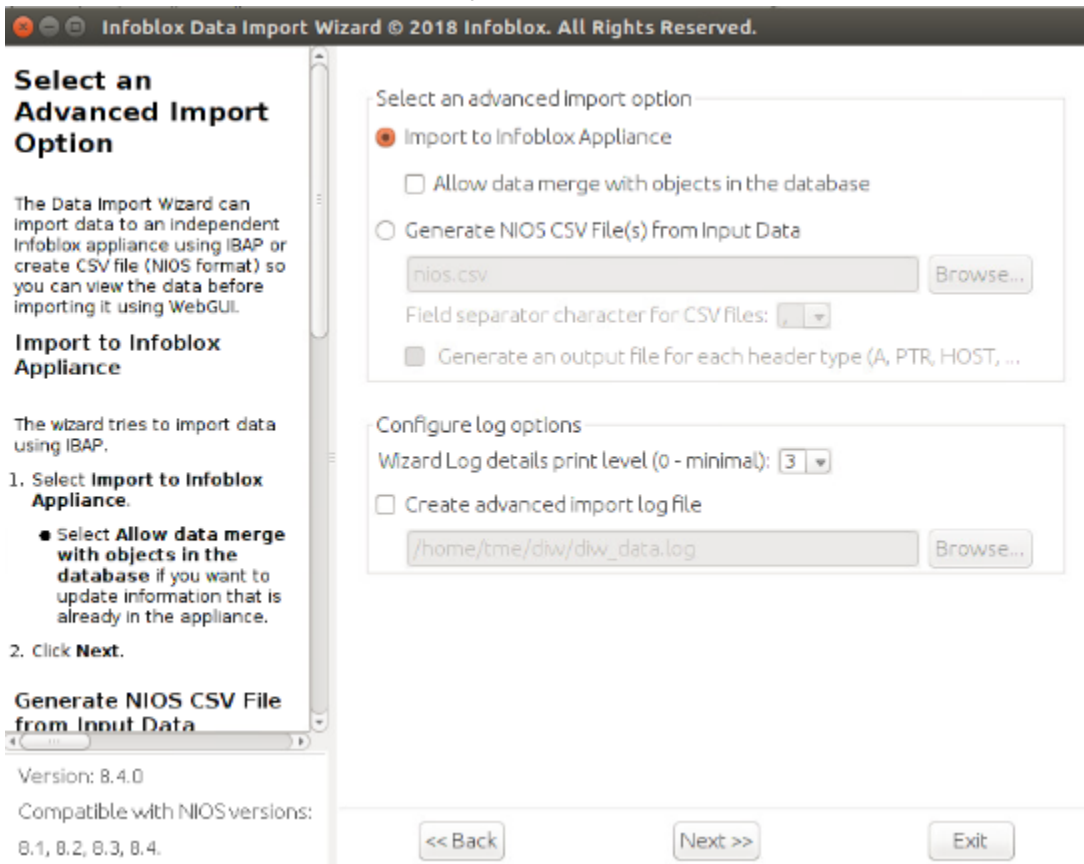
8. Close the wizard and relaunch it.

9. Re run steps 1 to 5.

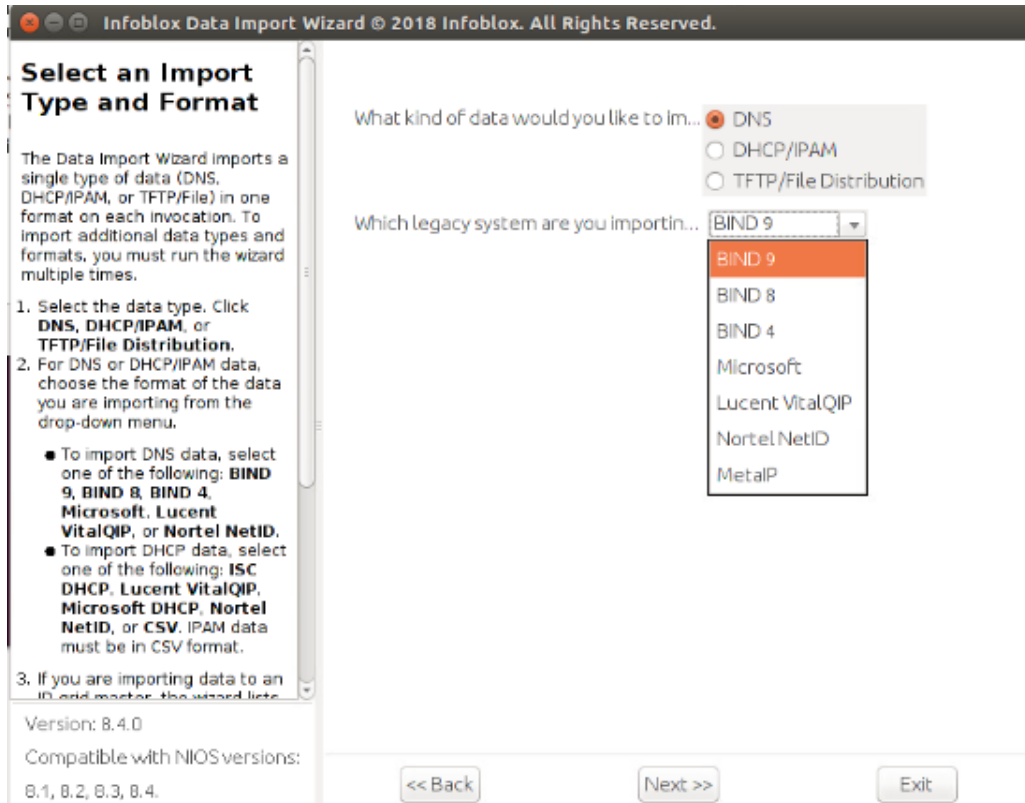
10. This opens up a logging window



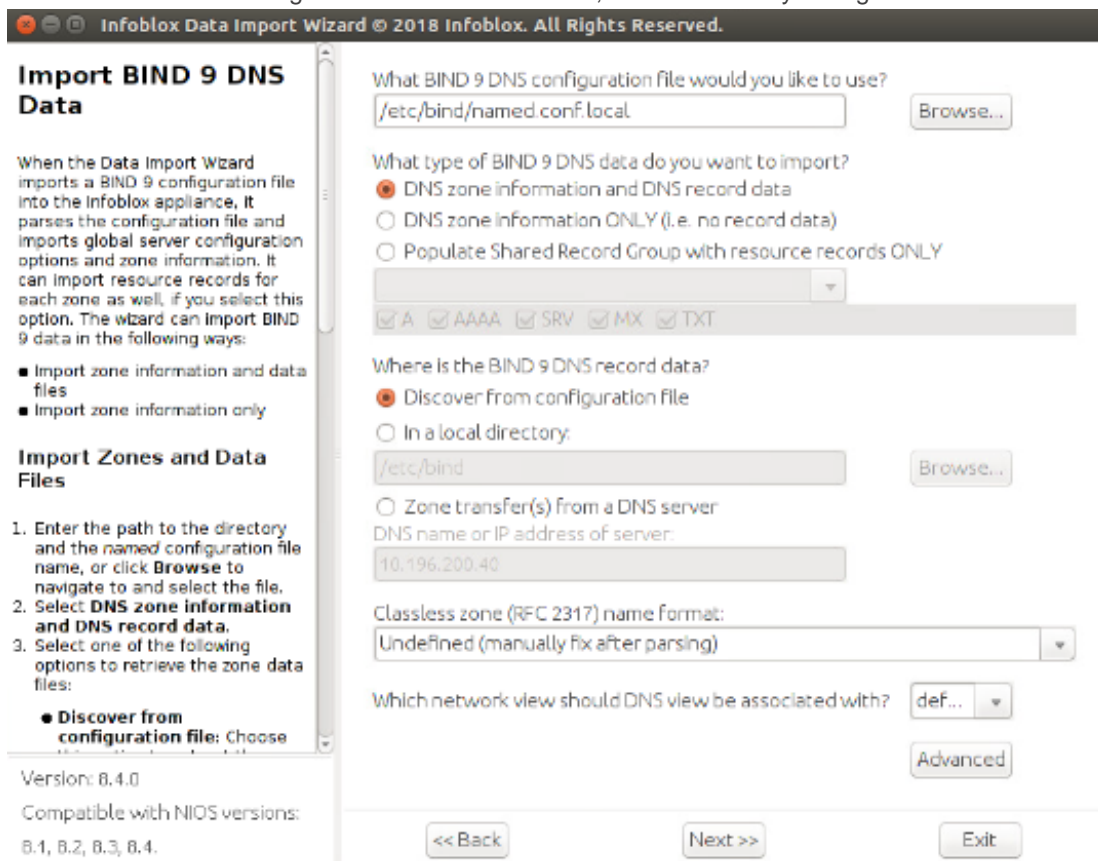
11. On the main wizard, review the options and click on **Next**.



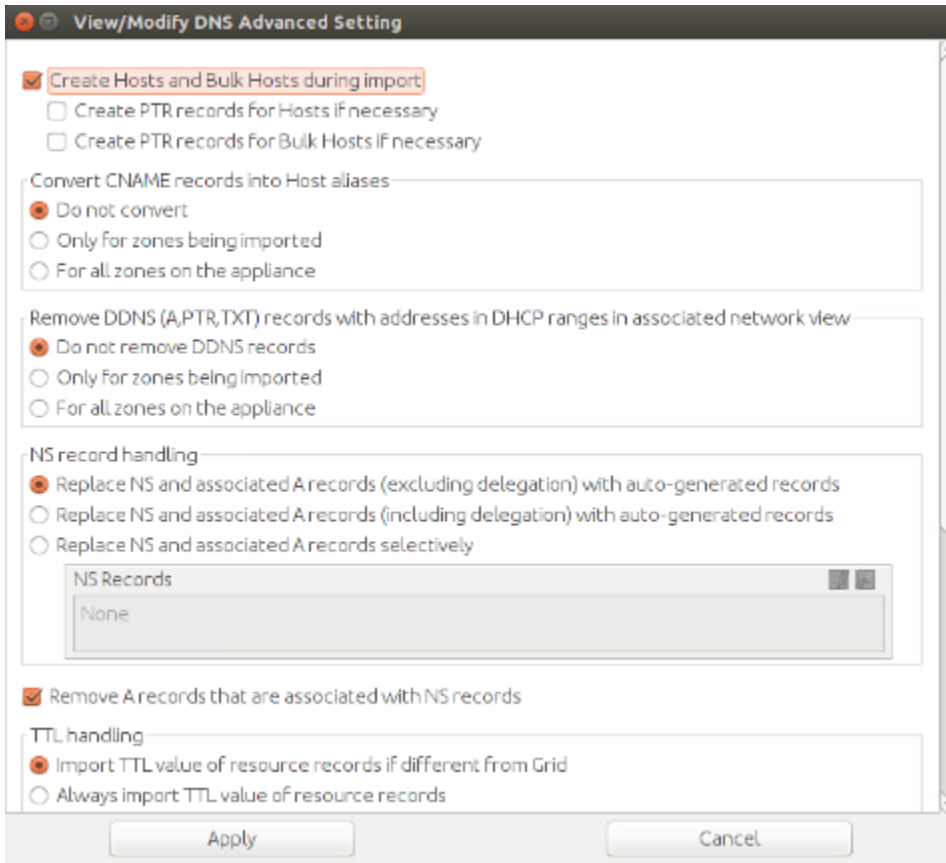
12. Select **DNS** as your data to import and **BIND 9** as the server to import it from.



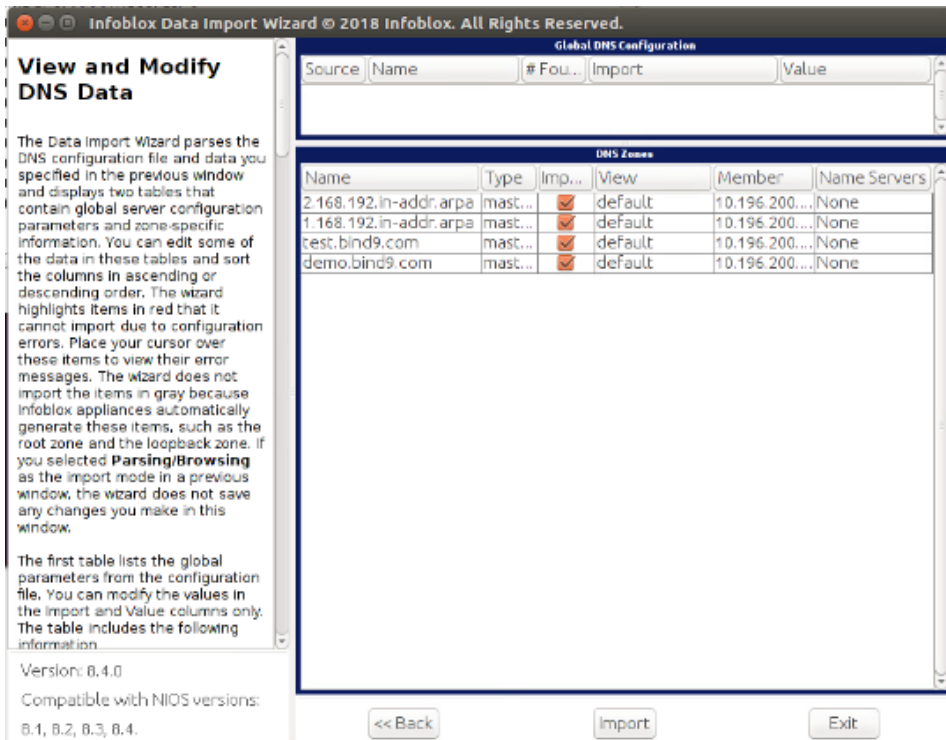
13. Review the configuration on the next screen, make necessary changes



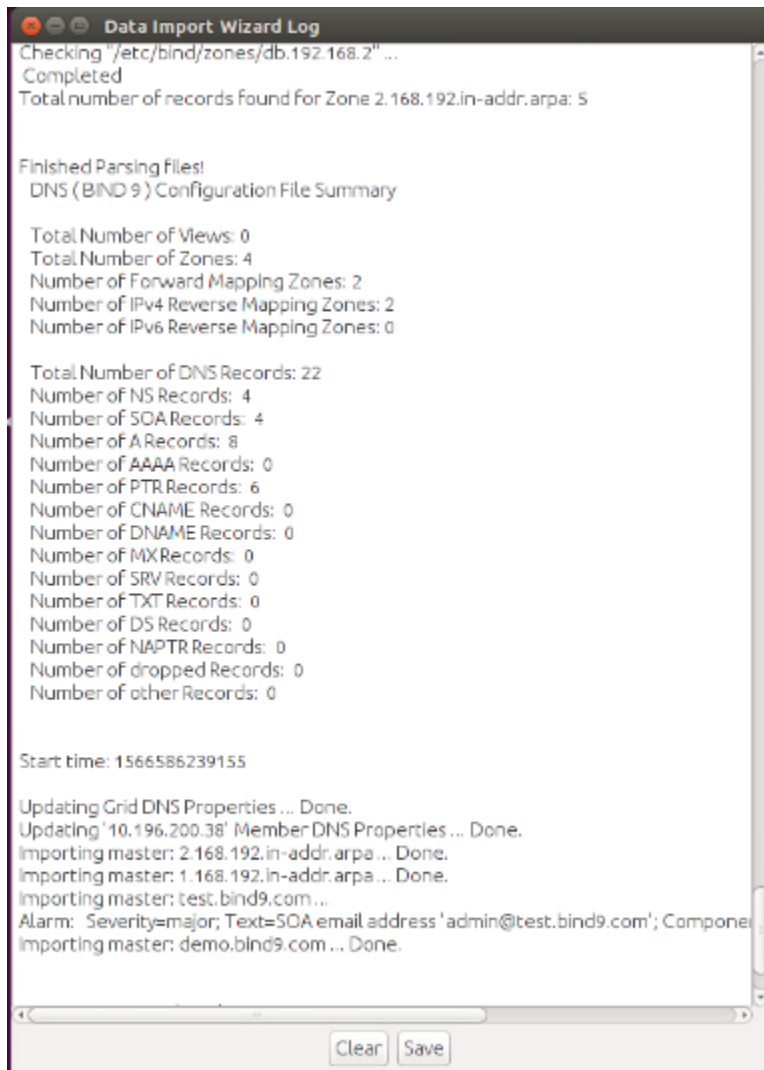
14. Click on **Advanced**.
15. Verify the options and click on **Apply**



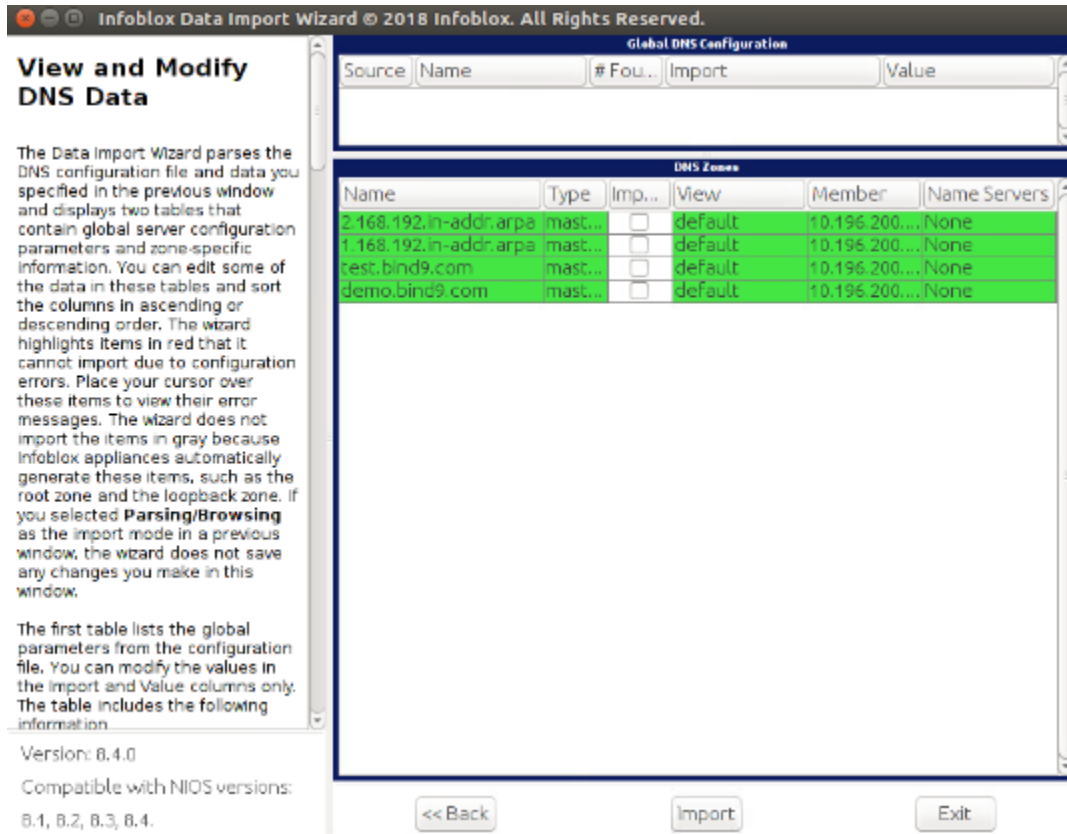
16. Click on **Import**



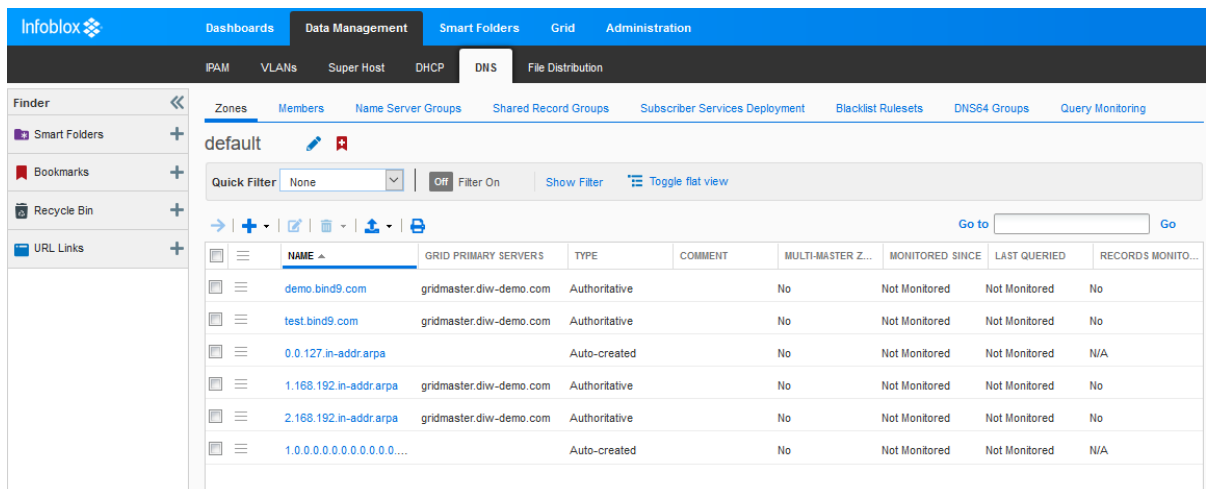
17. In the logs you can see a summary of the zones and records getting imported.



18. Click on **Exit**



19. Launch the Infoblox grid manager from a browser.
20. Navigate to the **Data Management → DNS**.
21. All the zones from the Microsoft Server are imported.



22. Click into one of the zones. You will see the records listed.

Infoblox Dashboards Data Management Smart Folders Grid Administration

IPAM VLANs Super Host DHCP DNS File Distribution

Finder << Smart Folders + Bookmarks + Recycle Bin + URL Links +

Zones Members Name Server Groups Shared Record Groups Subscriber Services Deployment

default

demo.bind9.com Authoritative Zone

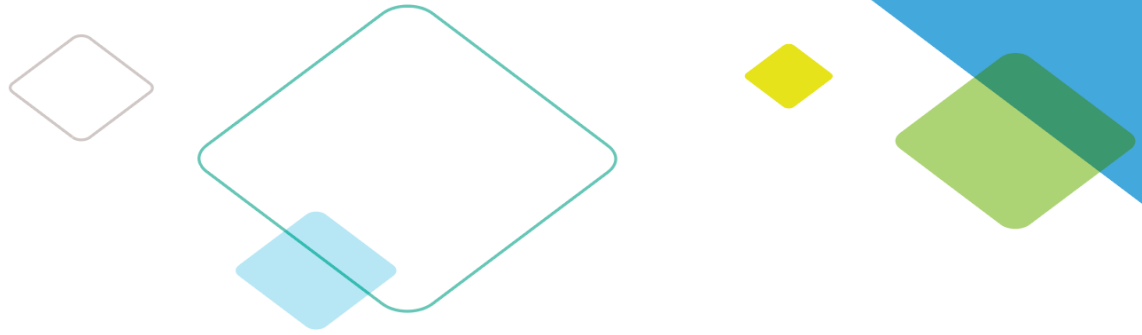
Records Subzones

Quick Filter None Filter On Show Filter Toggle flat view

NAME	TYPE	DATA	RECORD SOURCE
	SOA Record	Serial 3 MNAME gridmaster.diw-c RNAME admin@demo.bii Refresh 10800 Retry 3600 Expire 2419200 Negative Caching TTL 900	System
	NS Record	gridmaster.diw-demo.com	System
host	Host	192.168.1.100	Static
mx	Host	192.168.2.200	Static
www	Host	192.168.1.135	Static

Resources

[Demo Video: Data Import Wizard Installation Link](#)



Infoblox is leading the way to next-level DDI with its Secure Cloud-Managed Network Services. Infoblox brings next-level security, reliability and automation to on-premises, cloud and hybrid networks, setting customers on a path to a single pane of glass for network management. Infoblox is a recognized leader with 50 percent market share comprised of 8,000 customers, including 350 of the Fortune 500.

Corporate Headquarters | 3111 Coronado Dr. | Santa Clara, CA | 95054
+1.408.986.4000 | 1.866.463.6256 (toll-free, U.S. and Canada) | info@infoblox.com | www.infoblox.com



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