Prerequisites

You will need the following prerequisites in order to follow the documentation:

- Nagios Log Server installation
- A separate Microsoft Windows-based AD infrastructure that is accessible to the Nagios Log Server machine
 - OR
- A separate LDAP infrastructure (like OpenLDAP) that is accessible to the Nagios Log Server machine

Cluster Considerations

Nagios Log Server is a clustered application, it consists of one or more instances of Nagios Log Server. Being a clustered application, it does not matter which instance a user connects to when logging into the web interface. With this in mind, each instance of Nagios Log Server will need to be able to communicate with the AD or LDAP servers when authenticating user credentials.

Nagios Log Server DNS Resolution

It is assumed that the DNS settings for each of your Nagios Log Server instances use DNS servers that are:



- Domain Controllers (DC) in your AD domain
 - OR
- Capable of resolving the DNS entries used to contact your LDAP server(s)

If you are having issues you can edit the resolv.conf file to use a DNS server within the AD infrastructure as the primary name server.

- Edit the resolv.conf file in a text editor:
 - vi /etc/resolv.conf
- Before all other lines starting with nameserver, enter the following:
 - nameserver [IP address of DNS server]

Caching options in PHP may prevent changes to the resolv.conf from taking effect and require restarting the Apache service. If you do edit the file, you will need to restart the Apache web server:

RHEL| CentOS | Oracle Linux

systemctl restart httpd.service

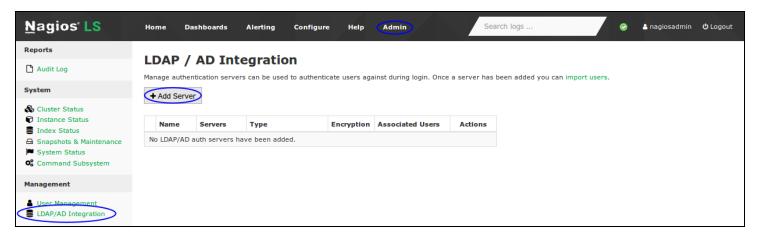
Debian | Ubuntu

systemctl restart apache2.service

Be aware that the /etc/resolv.conf file can be automatically overwritten by the networking stack in RHEL / CentOS. Please consult the RHEL / CentOS documentation for more information on correctly configuring the DNS servers for Linux.

Configuring The Authentication Servers

First you must configure the Authentication Server(s) that Nagios Log Server will use. Navigate to Admin > Management > LDAP/AD Integration.



To add an Authentication Server click the Add Server button. There are different options for Active Directory and LDAP.

Active Directory

You will need to provide the following details:

Server Type: Active Directory

Enabled: Checked

Server Name:

Provide a name to associate with this authentication method.

Base DN:

An LDAP formatted string where the users are located.

Example: DC=BOX293,DC=local

Account Suffix:

An @your-domain.suffix (the part of the full user identification after the username).



Example @BOX293.local

Domain Controllers:

A comma separated list of DC servers that Nagios Log Server can use to authenticate against. This can be a combination of IP addresses, short names, and fully qualified domain names.



When using SSL or TLS for security, it is important that these entries match the Common Name (CN) in the SSL/TLS certificate that these DCs will present to the Nagios Log Server instance.

Example: dc01.box293.local,dc02.box293.local

Encryption Method:

Select the security method (or not) to use. This guide will choose None.

If you are in a domain forest that has been raised to a functional level of 2012, then TLS is needed along with additional steps in the following guide:

Using SSL with AD and LDAP.

If SSL or TLS is required then please refer to the same guide.



Server Type	Active Directory 🔻
	✓ Enabled 🚱
Server Name	BOX293
	The name of the server for internal purposes only. This will not affect the connection.
Base DN	DC=BOX293,DC=local The LDAP-format starting object (distinguished name) that your users are defined
	below, such as DC=nagios,DC=com.
Account Suffix	@BOX293.local The part of the full user identification after the username, such as @nagios.com.
Domain Controllers	dc01.box293.local
Domain controllers	A comma-separated list of domain controllers.
Encryption Method	None
	Used when trying to connect to a server via SSL or TLS encryptions.
Create Server Cancel	

Once completed click the Create Server button.

You can now proceed to the <u>Importing Users</u> section.

LDAP

You will need to provide the following details:

Server Type: LDAP

Enabled: Checked

Server Name:

Nagios

Authenticating Users with AD and LDAP in Nagios Log Server 2024

Provide a name to associate with this authentication method.

Base DN:

An LDAP formatted string where the users are located.

Example: dc=box293,dc=local

LDAP Host:

The LDAP server that Nagios Log Server can use to authenticate against. This can be an IP address, short name or fully qualified domain name.



When using SSL or TLS for security, it is important that this entry matches the Common Name (CN) in the SSL/TLS certificate that this LDAP server will present to the Nagios Log Server instance.

Example: Idap01.box293.local

LDAP Port:

The TCP network port used to communicate with the LDAP server.

Example: 389

Encryption Method:

Select the security method (or not) to use. This guide will choose None.

If SSL or TLS is required then please refer to the

<u>Using SSL with AD and LDAP</u> documentation.



Server Type	LDAP
	✓ Enabled 🚱
Server Name	BOX293
	The name of the server for internal purposes only. This will not affect the connection.
Base DN	dc=box293,dc=local
	The LDAP-format starting object (distinguished name) that your users are defined below, such as DC=nagios,DC=com .
LDAP Host	Idap01.box293.local
	The IP address or hostname of your LDAP server.
LDAP Port	389
	The port your LDAP server is running on. (Default is 389)
Encryption Method	None
	Used when trying to connect to a server via SSL or TLS encryptions.
Create Server Cancel	

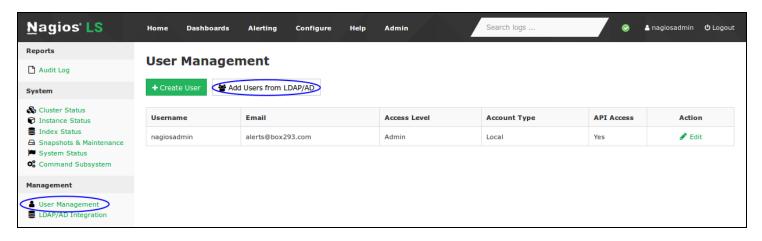
Once completed click the Create Server button.

You can now proceed to the Importing Users section.

Importing Users

The next step is to import users from Active Directory or LDAP. Once the user has been imported, Nagios Log Server will query the DCs or LDAP server each each time the user logs in to validate credentials. The following steps are the same for Active Directory or LDAP.

1. Navigate to Admin > Management > User Management and click the Add Users from LDAP/AD button.





2. Select the authentication server(s) you previously defined and provide credentials to connect to the server(s).

The account credentials you are providing here are only required to authenticate against AD / LDAP to retrieve the directory contents. They are not saved or used in the actual user authentication.

3. Click Next.

LDAP / AD Import Users Select the users you would like to give access to Log Server via LDAP / Active Directory authentication. You will be able to set user-specific permissions on the next page. Select Users to Import 1 users selected for import 🛁 Company ☐ △ 001 Admin User (admin_user_001) ⊕ Computers 🔲 🙇 Administrator (Administrator) 🕀 Domain Controllers Backup user (backup_user) Backup_user) Backup_user) Keys Microsoft Exchange Security Groups DiscoverySearchMailbox {D919BA05-46 Microsoft Exchange System Objects (SM_f464c3ac561b49529) Users 📣 Allowed RODC Password Replication Group Exchange Online-ApplicationAccount (\$ 🙈 Cert Publishers FederatedEmail.4c1f4d8b-8179-4148-9 (SM_bca34b6b3b6840718) 뤘 Cloneable Domain Controllers 뤒 Denied RODC Password Replication Group 뤘 DnsAdmins ☐ A Jane Doe (jane.doe) ⊕ 뤘 DnsUpdateProxy 🏹 🔼 John Smith (john.smith) 🕀 뤘 Domain Admins Migration.8f3e7716-2011-43e4-96b1-a 뤘 Domain Computers (SM_3dd6254f96044d72a) 📠 Domain Controllers 뤘 Domain Guests 🔲 🧸 nagios (nagios) 🕀 뤘 Domain Users Nagios Alerts (nagios_alerts) 🙈 Enterprise Admins Snapshot user (snapshot_user) Snapshot_user) Snapshot_user) 뤘 Enterprise Key Admins SystemMailbox{1f05a927-9d44-4d09-8 🙈 Enterprise Read-only Domain Controllers (SM_2e6ef0ad63fb41be8) 뤒 Group Policy Creator Owners SystemMailbox{2CE34405-31BE-455D-Make Admins (SM_c57260936d894caeb) 뤘 Protected Users 뤘 RAS and IAS Servers SystemMailbox{8cc370d3-822a-4ab8-a 🙈 Read-only Domain Controllers (SM a5018e92238e419eb) 🙈 Schema Admins

Add Selected Users >

Select All



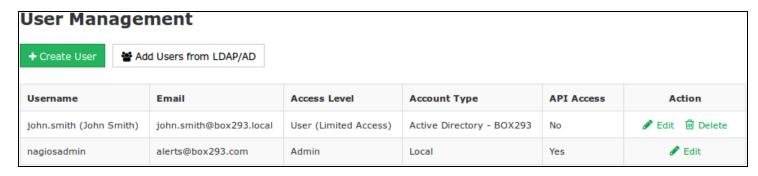
4. Once you've successfully authenticated, you'll be presented with the node of your directory tree (relative to the Base DN that was defined). In the screenshot you can see the Users node has been selected.

The user John Smith has been selected to import and you can see it summarizes this at the top of the screen.

- 5. When you've chosen all the users to import, click the Add Selected Users button.
- 6. On the next screen you are presented with a list of the users you are going to import and the summary of how they are going to be imported (see screenshot below).



- 7. Every user will need the required fields (marked by an *) defined before you can click the Create Users button.
- 8. Click the Create Users button to continue. The user accounts will now be imported into Nagios Log Server. When finished you will be returned to the User Management screen.



This completes importing users into Nagios Log Server from AD/LDAP.



Linking Existing Nagios Log Server Users to Active Directory Users

If you already have Nagios Log Server users that have been created, you can easily link these local accounts to Active Directory accounts.

- 1. Navigate to Admin > Management > User Management.
- 2. Click the Edit link for the user you want to update, the settings are on the External Authentication tab:

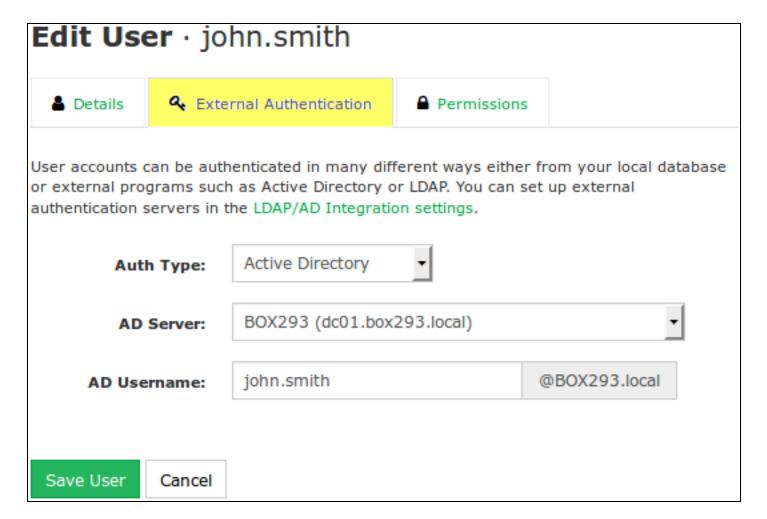
Auth Type: Active Directory

AD Server: Select the authentication server(s) you previously defined

AD Username:

Type the username for this user as it is configured in Active Directory

Example: jane.doe



3. Click the Save User button to save the changes.

Once these changes have been made, the existing Nagios Log Server user will be able to login using their Active Directory credentials.

Linking Existing Nagios Log Server Users to LDAP Users

If you already have Nagios Log Server users that have been created, you can easily link these local accounts to LDAP accounts.

1. Navigate to Admin > Management > User Management.



2. Click the Edit link for the user you want to update, the settings are on the External Authentication tab:

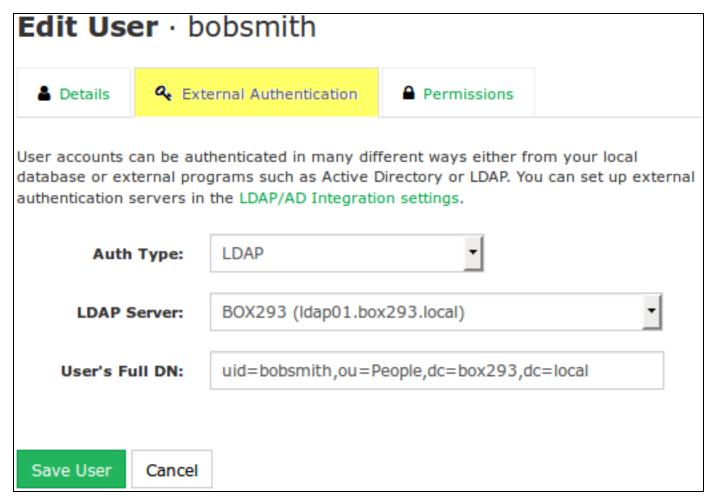
Auth Type: LDAP

LDAP Server: Select the authentication server you previously defined

Users Full DN:

Type the full distinguished name (DN) for this user as it is defined in LDAP

Example: uid=bobsmith,ou=People,dc=box293,dc=local



3. Click the Save User button to save the changes.



Once these changes have been made, the existing Nagios Log Server user will be able to login using their LDAP credentials.

LDAP Account Requirements

The following details demonstrate the required object classes and attributes that need to exist for an LDAP user. If these attributes do not exist it is likely that they will not appear in the list of users when performing an import from your LDAP server.

dn: uid=bobsmith,ou=People,dc=box293,dc=local

givenName: Bob

sn: Smith

cn: Bob Smith

uidNumber: 10004

gidNumber: 10004

mail: bobsmith@box293.local

homeDirectory: /home/bobsmith

objectClass: top

objectClass: posixAccount

objectClass: inetOrgPerson