

# How to configure LDAP on your firewall

# How to configure LDAP on your firewall

In this document, we will guide you through the configuration of LDAP on your firewall.

**Step 1:** Create a service group on the firewall by going to Definitions -> Protocols and Services -> Configure Service Group.

The screenshot shows the 'Add Service Group' dialog box. The 'Service Group' field is filled with 'LDAP'. Below it, there are two lists: 'Available Services' and 'Selected Services'. The 'Available Services' list contains: ipsec4500, irc, isakmp-4500, isakmp-500, l2tp, ldapudp, lotusnotes, microsoft-smbtcp, microsoft-smbudp, and microsoft-smbtcp. The 'Selected Services' list contains: ldaptcp. There are arrows between the lists to move items. At the bottom, there are 'Save' and 'Cancel' buttons.

**Step 2:** Create a host by going to Definitions-> Hosts and add LDAPServer as a host by specifying the appropriate IP Address.

The screenshot shows the 'Add Host' dialog box. The 'Host ID' field is filled with 'LDAPServer' and the 'Host IP' field is filled with '192.168.2.248'. At the bottom, there are 'Save' and 'Cancel' buttons.

**Step 3:** Now create the rules for allowing LDAP service through the GajShield firewall by going to Firewall -> Policies -> Rules.

You will need to add a rule by going on Firewall > Policies > Rules & use LDAPServer in services tab to allow the firewall to access the LDAP Server as shown below

The screenshot shows the Firewall Policy configuration window. It is divided into two sections: 'Zones' and 'Services and Ports'.  
In the 'Zones' section:  
- Direction: Any to Any  
- Source: fwip-LAN  
- Destination: LDAPServer  
- NAT: ignore  
In the 'Services and Ports' section:  
- Services: LDAP  
- NAT: No NAT

#### Step 4: Go to Configuration -> User Management -> LDAP

The screenshot shows a web interface for configuring LDAP. At the top, there are tabs for 'Radius', 'Tacacs Plus', 'Ldap', and 'Active Directory'. The 'Ldap' tab is selected. Below the tabs is a form titled 'Edit Ldap'. The form contains the following fields:

Server Name	ldapsrvr
Server IP	LDAPServer
Server Port	389
Distinguished Name	GAJSHIELDLDAP
Login Attribute	ldaplogin
First Name Attribute (Optional)	abc
Last Name Attribute (Optional)	xyz
Email Address Attribute (Optional)	abc@xyz.com
Bind DN (Optional)	
Password (Optional)	*****
Scope (Optional)	

At the bottom of the form, there are 'Save' and 'Reset' buttons. Below the form is a section titled 'Synchronize Ldap Users/Groups' with a 'Synchronize' button.

Specify the following information under LDAP Server Settings:

**Server name:** Define a name for the LDAP configuration.

**Server IP:** Select the host IP Address of the remote LDAP server

**Server Port:** The default LDAP port is 389, if your LDAP server is using another port then you can define the custom port.

**Distinguished Named:** It is used to look up entries on the LDAP server and is a hierarchy of LDAP database object classes above the Common Name Identifier.

**Login Attribute:** Default Login Attribute is Unique Identification (UID) to identify user entries. Here you can define different login attribute as well.

**First Name Attribute (Optional):** Define first name attribute for LDAP configuration.

**Last Name Attribute (Optional):** Define last name attribute for LDAP configuration.

**Email Address Attribute (Optional):** Define email address attribute for LDAP configuration.

**BindDN:** Define distinguished name of LDAP server. Distinguished name is starting point for searching user in LDAP server.

**Password:** Input the secret (password) to be used to connect LDAP server.

**Scope:** Define scope as configured on the LDAP server.

**NOTE: You will also need to add a rule in the policy manager to allow the firewall access to the LDAP server.**

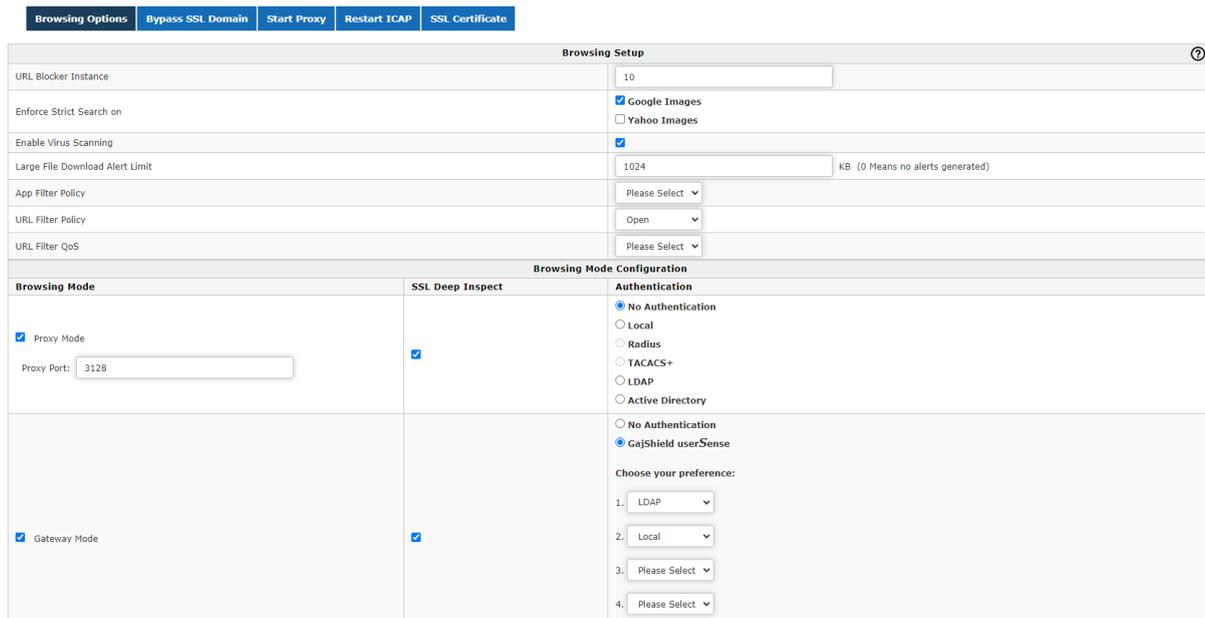
After adding the necessary information, you will have to create a firewall rule to connect to the LDAP server by going to firewall -> Policies -> Rules

### Synchronize LDAP Users/Groups



**Synchronize LDAP Users/Groups:** Click on Synchronize button to synchronize LDAP users as well as groups from LDAP users.

**NOTE:** You will have to specify LDAP option by going to Browsing -> Setup -> Browsing Options, tick on userSense and specify LDAP from the drop down menu.



Thus you have successfully configured LDAP on your firewall.