How to configure AD on your firewall

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Active Directory is Microsoft's trademarked directory service, an integral part of the Windows architecture. Active Directory is a centralized and standardized system that automates network management of user data, security, and resources.

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

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

Step 3: Now create the rules for allowing AD 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 ADServer in services tab, to allow the firewall to access the Active Directory Server as shown below.

Zones

Direction		Any		To		Any	
Source		fwip-LAN		NAT		ignore	
Destination		ADServer		NAT		nonat	
						☐ Proxy-mode	

Services and Ports

Services		AD		NAT		No NAT	

Rules	**Port Forwarding**	**DoS Settings**	**MAC Binding**	**MAC Filtering**	**Install Policies**

Status
Rules: 2 added successfully. Policies Have Been Reinstalled

[OK]

NOTE: After adding the firewall rules, install the firewall policies by going to Firewall -> Policies -> Install Policies

Step 4: Now go to Configuration -> User Management -> Active Directory and configure AD as shown below.

Radius	**Tacacs Plus**	**Ldap**	**Active Directory**

Add Active Directory		⊚
Workgroup Name	testdc	
Server Name	activedirectory-server	
Domain Name	testdc.com	
Server IP	ADServer	
Username	administrator	
Password	••••••••••••••	
Group Syncronization	☐	

[Save] [Cancel]

Radius	**Tacacs Plus**	**Ldap**	**Active Directory**

Status
Active Directory: testdc added successfully.

[OK]

Workgroup name: Type you domain name without abbreviation. (Example: Domain name is testdc.com, only insert testdc).

Server name: Insert the host name / NetBIOS name of the server.

Domain name: Insert Domain name. (Example: Domain name is testdc.com, insert the same).

Server IP: Select the Domain controller LAN IP Host.

Username: Provide username of an administrator or any user with administrative right. (Recommended is administrator user).

Password: Insert password of the user in the Username field.

Enable Group Synchronization: Check if you want to enable user group synchronization from active directory.

Join Active Directory Domain

Join Active Directory Domain
Join

Join Active Directory Domain: After adding active directory settings, click on Join button to join active directory domain server.

Synchronize Active Directory Users

Synchronize Active Directory Users
Synchronize

Synchronize Active Directory Users: After joining the active directory domain server, click on Synchronize button to synchronize active directory domain server users and groups.

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

Browsing Setup	
URL Blocker Instance	10
Enforce Strict Search on	☑ Google Images ☐ Yahoo Images
Enable Virus Scanning	☑
Large File Download Alert Limit	1024 KB (0 Means no alerts generated)
App Filter Policy	Please Select ▼
URL Filter Policy	Open ▼
URL Filter QoS	TestPolicy ▼

Browsing Mode Configuration		
Browsing Mode	**SSL Deep Inspect**	**Authentication**
☑ Proxy Mode Proxy Port: 3128	☑	○ No Authentication ○ Local ○ Radius ○ TACACS+ ○ LDAP ● Active Directory
☑ Gateway Mode	☑	○ No Authentication ● GajShield user*S*ense **Choose your preference:** 1. Active Directory ▼ 2. Local ▼ 3. Please Select ▼ Enable Single Sign On: Yes ▼ Select logout time interval (in minutes): 1 ▼
Setup		

NOTE: Active Directory domain groups will only synchronize if "Enable Group Synchronization" is selected under Active Directory Settings.

Thus, you have configured AD on your firewall.