Connect to Parent Proxy in the Internal Network

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Overview
This guide describes how to configure Sophos XG Firewall to connect to a parent proxy server deployed in LAN or DMZ.
Parent proxy is also known as upstream proxy or forward proxy.

Prerequisites
You must have read-write permissions on the SF-OS Admin Console for the relevant features.

Network Diagram
In this scenario, web requests from the LAN are redirected to the parent proxy (LAN) which will forward these to WAN.
**Configuration**

Log in to the SF-OS Admin Console.

**Step 1: Enable IPv4 Parent Proxy**

- Go to Configure > Routing > Upstream Proxy.
- Select to enable Parent Proxy and enter the Domain Name/IPv4 Address of the parent proxy.

```
IPv4 Parent Proxy

Parent Proxy: ✔ Enable
Domain Name/IPv4 Address: 10.168.1.10
Port: 3128
Username: admin
Password: ********

Apply
```

Click Apply.
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Step 2: Create a firewall rule to forward requests to the parent proxy

- Go to Protect > Firewall, click Add Firewall Rule and click User/Network Rule.
- Select the Rule Position from the list. Firewall rules are evaluated from top to bottom until a matching rule is found. You can drag the rule upwards or downwards to a specific position in the rule table.
- Set both Source and Destination Zones to LAN. This enables XG Firewall to forward requests to the parent proxy.

Note: If parent proxy is deployed in DMZ, create a User/Network Rule with Source Zones set to LAN and Destination Zones set to DMZ.

Under Identity and Malware Scanning, retain the default settings.
Under **Advanced**, retain the default settings.

Click **Save**.

**Step 3: Create a firewall rule to masquerade outgoing traffic**

- Go to **Protect > Firewall**, click **Add Firewall Rule** and click **User/Network Rule**.
- Select the **Rule Position** from the list.
- Set Source Zones to LAN. Set Destination Zones to WAN. This forwards traffic from the parent proxy to WAN.

**Note:** If parent proxy is deployed in DMZ, create a User/Network Rule with Source Zones set to DMZ and Destination Zones set to WAN to masquerade outgoing traffic.

Under **Advanced**, in **NAT & Routing**, select the Rewrite source address (Masquerading) check box to masquerade the IP address of parent proxy.
Click Save.
Result

You have established a secure connection between Sophos XG firewall and the internal parent proxy server which is deployed in LAN. Web requests from LAN users will be routed by the XG firewall to the parent proxy which will forward these to WAN.
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