

Setting up a reverse proxy for ADSelfService Plus using Apache HTTP Server

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Document summary

This guide will walk you through the process of securely deploying ADSelfService Plus to remote users using Apache HTTP Server as a reverse proxy.

Prerequisites

- **Host ADSelfService Plus on the internet:** Before you can set up a reverse proxy using Apache, you need to host ADSelfService Plus on the internet so that remote users can access it. [This guide](#) provides step-by-step instructions on how to host ADSelfService Plus on the internet.
- **Failover and Secure Gateway Services add-on:** To enable a reverse proxy, you need to purchase the Failover and Secure Gateway Services add-on. [Buy now.](#)

What is a reverse proxy and how does it work?

Before jumping into the configuration steps, let's talk about what a reverse proxy is. In computer networks, a reverse proxy is a type of proxy server that retrieves resources on behalf of a client (user) from one or more servers (ADSelfService Plus). These resources are then returned to the client as though they originated from the reverse proxy itself. A reverse proxy is used as a strategic point in the network to enforce web application security.

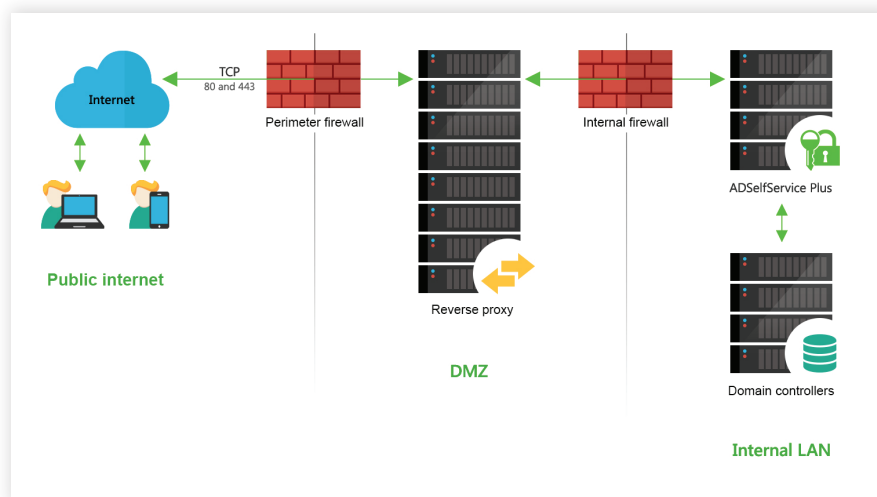


Figure 1: A reverse proxy server in a DMZ, while the ADSelfService Plus server is hosted in the intranet.

As shown in the figure above, ADSelfService Plus works with reverse proxy servers. In our example above, requests from clients (users) are received by the reverse proxy server (Apache server) in the DMZ. The reverse proxy server then forwards those requests to the ADSelfService Plus server in the LAN. If needed, the ADSelfService Plus server can also be placed in the DMZ. In either case, external machines never connect directly to the ADSelfService Plus server.

Your firewall will only permit the proxy server to access the ADSelfService Plus server, and only through the required port.

Important: Once you enable a reverse proxy, please update the Access URL settings in ADSelfService Plus by navigating to **Admin > Product Settings > Connection** and clicking **Configure Access URL**.

Configuring Apache HTTP Server as a reverse proxy for ADSelfService Plus

Now, let's look at how to configure a reverse proxy for ADSelfService Plus using an Apache server. For this configuration, we're using Apache HTTP Server version 2.2.

Important:

- This configuration assumes that the reverse proxy server is placed in a DMZ, and the ADSelfService Plus server and the domain controllers are in an internal LAN.
- We've used the default values for IP addresses, port numbers, file locations, etc. in the steps provided. If you've changed any default settings in ADSelfService Plus or your Apache server, make sure those changes are reflected in these steps.
- Make sure you have opened the port that will be used in the Apache server configuration for TCP access (80 for HTTP and 443 for HTTPS, by default) in Windows Firewall.

Step 1: Make changes in your Apache server

1. Navigate to `C:\Program Files\Apache Software Foundation\Apache2.2\conf`.
2. Open the `httpd.conf` file in a text editor.
3. Uncomment the following lines:

```
LoadModule proxy_module modules/mod_proxy.so
LoadModule proxy_ajp_module modules/mod_proxy_ajp.so
LoadModule proxy_balancer_module modules/mod_proxy_balancer.so
LoadModule proxy_connect_module modules/mod_proxy_connect.so
LoadModule proxy_ftp_module modules/mod_proxy_ftp.so
LoadModule proxy_http_module modules/mod_proxy_http.so
LoadModule proxy_scgi_module modules/mod_proxy_scgi.so
Include conf/extra/httpd-vhosts.conf
```

4. Navigate to C:\Program Files\Apache Software Foundation\Apache2.2\conf\extra.
5. Open the `http-vhost.conf` file in a text editor.
6. Add the entries below:

```
NameVirtualHost *:443
<VirtualHost *:443>
ServerAdmin admin@test.com
ServerName adselfserviceplus.yourdomain.com
SSLEngine on
SSLProxyEngine on
SSLCertificateFile "C:\Program Files\Apache Software Foundation\Apache2.2\conf\server.crt"
SSLCertificateKeyFile "C:\Program Files\Apache Software Foundation\Apache2.2\conf\server.key"
<Location />
ProxyPass https://192.168.200.254:9251/
ProxyPassReverse https://192.168.200.254:9251/
</Location>
ErrorLog "logs/ADSelfServicePlus.log"
CustomLog "logs/ADSelfServicePlus.log" common
</VirtualHost>
```

7. Restart the Apache server to see the changes take effect.

Step 2: Make changes in ADSelfService Plus

Based on whether you've enabled HTTPS or not, the steps for making changes in ADSelfService Plus may vary.

ADSelfService Plus in HTTPS mode

1. Navigate to `<install_dir>\conf`. By default, this folder is listed under C:\ManageEngine\ADSelfService Plus\conf.
2. Open the `server.xml` file in a text editor.
3. Search for the connector tag that contains the element `SSLEnabled="true"` (i.e. `<Connector SSLEnabled="true">`).
4. Add the following entry:

```
proxyName="<apache-server-ip-address>" proxyPort="443"
```

5. Save the changes.
6. Restart **ADSelfService Plus** to see the changes take effect.

ADSelfService Plus in HTTP mode

1. Navigate to <install_dir>\conf. By default, this folder is listed under **C:\ManageEngine\ADSelfService Plus\conf**.
2. Open the **server.xml** file in a text editor.
3. Search for the connector tag that contains the name="WebServer" element (i.e. <Connector name="WebServer">).
4. Add the following entry:

```
scheme="https" proxyName="<apache-server-ip-address>" proxyPort="443"
```

5. Save the changes.
6. Restart **ADSelfService Plus** to see the changes take effect.

You have now set up a reverse proxy for ADSelfService Plus using Apache HTTP Server.

If you have any questions, please contact support@adselfserviceplus.com. One of our product experts will be happy to help you.

About ManageEngine ADSelfService Plus

ADSelfService Plus is an integrated Active Directory self-service password management and single sign-on solution. It offers password self-service, password expiration reminders, a self-service directory updater, a multi-platform password synchronizer, and single sign-on for cloud applications. ADSelfService Plus supports the IT help desk by reducing password reset tickets and spares end users the frustration caused by computer downtime. For more information, please visit manageengine.com/products/self-service-password.

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