

How to Configure Inline Firewall Authentication

<https://campus.barracuda.com/doc/96026287/>

Inline authentication intercepts unauthorized users HTTP or HTTPS connections and redirects them to a login page on the Barracuda CloudGen Firewall. After successful authentication the user is forwarded to the original destination. This type of authentication is used to allow HTTP/HTTPS access to authenticated users. Access rules using inline authentication do not block non HTTP or HTTPS traffic even from unauthorized users. To avoid browser certificate errors, use a signed SSL certificate or install the root certificate of the self-signed certificate on all client computers using Inline Authentication.

Before You Begin

Choose and configure the authentication scheme. For more information, see [Authentication](#).

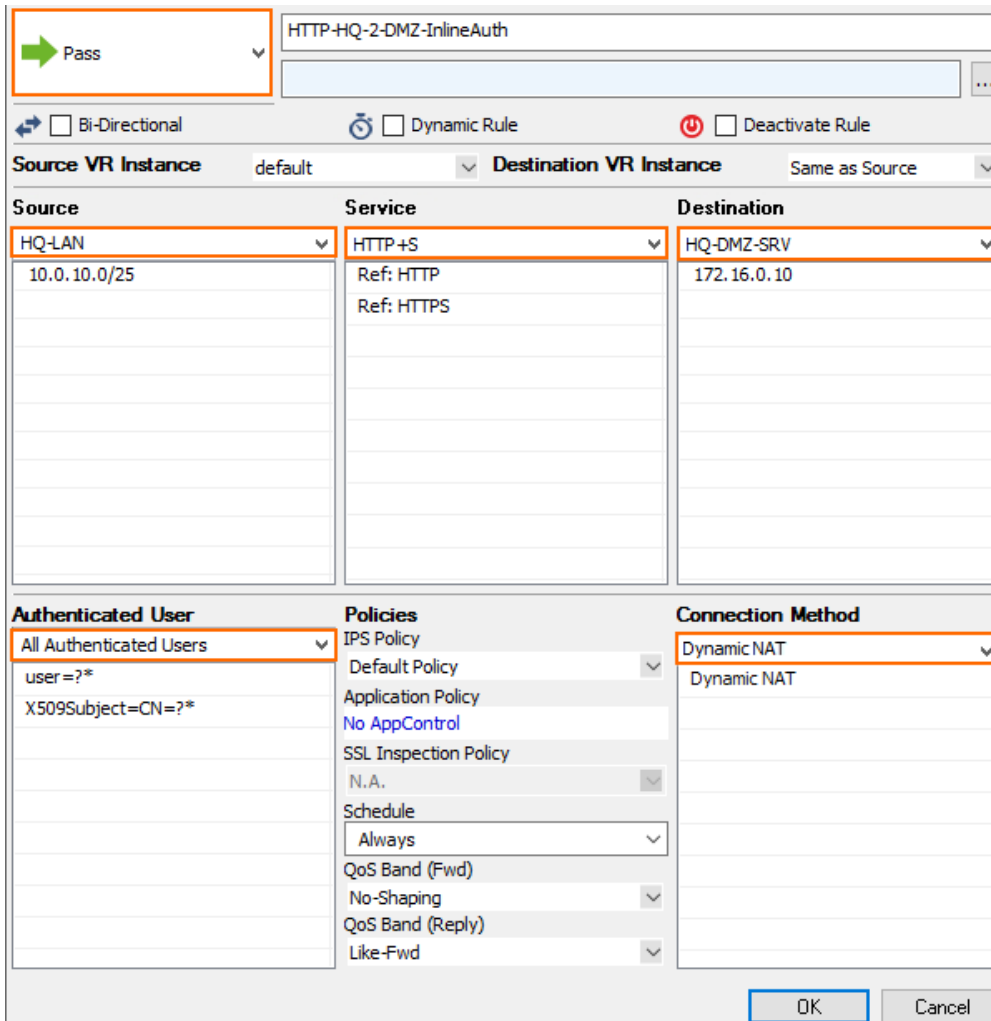
Step 1. Configure the Firewall Authentication Settings

For a basic configuration, only a default HTTPS certificate and the corresponding key is required. Download and install the root certificate on all client computers to avoid browser certificate errors.

1. Go to **CONFIGURATION > Configuration Tree > Box > Assigned Services > Firewall > Forwarding Settings**.
2. In the left menu, select **Authentication**.
3. Click **Lock**.
4. Click the **Operational Settings Edit** button. The **Operational Settings** window opens.
5. (optional) Set **Refresh auth every... min** to the number of minutes the authentication is valid for. Default: 5
6. (optional) Set **Refresh auth tolerance... min** to the number of minutes that a peer does not have to authenticate again after reconnecting.
7. Click **OK**.
8. Import or create the **Default HTTPS Private Key** and **Default HTTPS Certificate**.
The **Name** of the certificate must be the IP address or a FQDN resolving to the IP address of the Barracuda CloudGen Firewall. This value is used to redirect the client to the authentication daemon.
9. In the **Metadirectory Authentication** section, select a previously configured **Authentication Scheme**. For more information, see [Authentication](#).
10. Click **Send Changes** and **Activate**.

Step 2. Create the Access Rule for Inline Authentication

1. Go to **CONFIGURATION > Configuration Tree > Box > Assigned Services > Firewall > Forwarding Rules**.
2. Create an access rule that allows HTTP+S connections to the web server.



HTTP-HQ-2-DMZ-InlineAuth

Pass

☐ Bi-Directional ☐ Dynamic Rule ☐ Deactivate Rule

Source VR Instance: default Destination VR Instance: Same as Source

Source	Service	Destination
HQ-LAN 10.0.10.0/25	HTTP+S Ref: HTTP Ref: HTTPS	HQ-DMZ-SRV 172.16.0.10

Authenticated User	Policies	Connection Method
All Authenticated Users user=?* X509Subject=CN=?*	IPS Policy Default Policy Application Policy No AppControl SSL Inspection Policy N.A. Schedule Always QoS Band (Fwd) No-Shaping QoS Band (Reply) Like-Fwd	Dynamic NAT Dynamic NAT

OK Cancel

3. In the left menu of the rule editor window, click **Advanced**.
4. In the **Miscellaneous** section, select **Login+Password Authentication** from the **Inline Authentication for HTTP and HTTPS** list.

Miscellaneous	
Inline Authentication for HTTP and HTTPS	Login+Password Authentication ▼
IP Counting Policy	Default Policy
Time Restriction	Deprecated, use schedule
Clear DF Bit	No
Set TOS Value	0 (TOS unchanged)
Prefer Routing over Bridging	No
Color	RGB(0,0,0)
Block Page for TCP 80	None; SYN Block
Transparent Redirect	Disable

Quarantine Policy	
LAN Rule Policy	Match
Quarantine Class 1 Rule Policy	Block
Quarantine Class 2 Rule Policy	Block
Quarantine Class 3 Rule Policy	Block

5. In the left menu, click **Rule**.
6. In the **Authenticated User** section, specify the users this rule should match for. You can either define a user group object or create an explicit user condition for this rule.
 - To grant access to all authenticated users, select *All Authenticated Users*.
 - To create an explicit user condition:
 - Select *<explicit-user>*.
 - Right-click the table and select **Edit**.
 - In the **Edit/Create User Object** window, click **New**.
 - In the **User Condition** window, specify all authenticated users that are allowed access to the web server.
 - Click **OK**.
7. Click **Send Changes** and **Activate**.

Figures

1. inline_auth01.png
2. inline_auth02.png

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