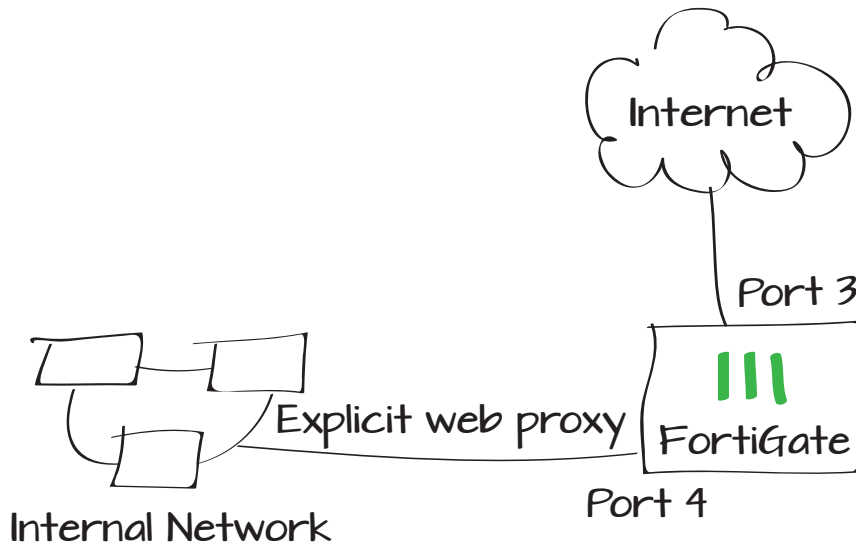


# Setting up an explicit proxy for users on a private network

In this example, an explicit web proxy is set to accommodate faster web browsing. This allows internal users to connect using port 8080 rather than port 80.

1. Enabling explicit web proxy on the internal interface
2. Configuring the explicit web proxy for HTTP/HTTPS traffic
3. Adding a security policy for proxy traffic
4. Results



## Enabling explicit web proxy on the internal interface

Go to **System > Network > Interfaces**.

Edit an internal port (port 4 in the example).

**Enable** both **DHCP Server** and **Explicit Web Proxy**.

Name	port4 (00:09:0F:4E:0E:C2)						
Alias	Internal Interface						
Link Status	Down						
Type	Physical Interface						
Addressing mode <input checked="" type="radio"/> Manual <input type="radio"/> DHCP <input type="radio"/> PPPoE <input type="radio"/> One-Arm Sniffer <input type="radio"/> Dedicate to							
IP/Network Mask	10.10.1.99/255.255.255.0						
Administrative Access <input checked="" type="checkbox"/> HTTPS <input checked="" type="checkbox"/> PING <input type="checkbox"/> HTTP <input type="checkbox"/> FMG-Access <input checked="" type="checkbox"/> SSH <input type="checkbox"/> SNMP <input type="checkbox"/> TELNET <input type="checkbox"/> FCT-Access							
DHCP Server <input checked="" type="checkbox"/> Enable							
Address Range	<table border="1"><tr><td colspan="2">Create New Edit Delete</td></tr><tr><td>Starting IP</td><td>End IP</td></tr><tr><td>10.10.1.100</td><td>10.10.1.200</td></tr></table>	Create New Edit Delete		Starting IP	End IP	10.10.1.100	10.10.1.200
Create New Edit Delete							
Starting IP	End IP						
10.10.1.100	10.10.1.200						
Netmask	255.255.255.0						
Default Gateway	<input checked="" type="radio"/> Same as Interface IP <input type="radio"/> Specify						
DNS Server	<input checked="" type="radio"/> Same as System DNS <input type="radio"/> Specify						
<a href="#">Advanced...</a>							
Security Mode	None						
Device Management							
Detect and Identify Devices	<input type="checkbox"/>						
Enable Explicit Web Proxy	<input checked="" type="checkbox"/>						
Listen for RADIUS Accounting Messages	<input type="checkbox"/>						
Secondary IP Address	<input type="checkbox"/>						
Comments	<input type="text" value="Write a comment..."/> 0/255						
Administrative Status	<input checked="" type="radio"/> Up <input type="radio"/> Down						

Go to **System > Config > Features**. Ensure that **WAN Opt. & Cache** is enabled.

### Basic Features



<b>Advanced Routing</b> <input checked="" type="checkbox"/> 	<b>IPv6</b> <input checked="" type="checkbox"/> 
<b>WAN Opt. &amp; Cache</b> <input checked="" type="checkbox"/> 	<b>WiFi Controller</b> <input checked="" type="checkbox"/> 

## Configuring the explicit web proxy for HTTP/HTTPS traffic

Go to **System > Network > Explicit Proxy** and enable the HTTP/HTTPS explicit web proxy.

Ensure that the **Default Firewall Policy Action** is set to **Deny**.

### Explicit Web Proxy Options

Enable Explicit Web Proxy	<input checked="" type="checkbox"/> HTTP / HTTPS	<input type="checkbox"/> FTP	<input type="checkbox"/> PAC
Listen on Interfaces	port4 		
HTTP Port	<input type="text" value="8080"/>		
HTTPS Port	<input type="text" value="0"/>	(0 to use HTTP port)	
FTP Port	<input type="text" value="0"/>	(0 to use HTTP port)	
PAC Port	<input type="text" value="0"/>	(0 to use HTTP port)	
PAC File Content			
Proxy FQDN	<input type="text" value="default.fqdn"/>		
Max HTTP request length	<input type="text" value="4"/>		Kb
Max HTTP message length	<input type="text" value="32"/>		Kb
Unknown HTTP version	<input type="text" value="Best Effort"/>		
Realm	<input type="text" value="default"/>		
Default Firewall Policy Action	<input type="radio"/> Accept <input checked="" type="radio"/> Deny		

## Adding a security policy for proxy traffic

Go to **Policy > Policy > Policy**.

Create a new policy and set the **Incoming Interface** to **web-proxy**, the **Outgoing Interface** to an internal port (in the example, port 3), and the **Service** to **webproxy**.

## Results

Configure web browsers on the private network to connect using a proxy server. The IP address of the HTTP proxy server is 10.10.1.99 (the IP address of the FortiGate internal interface) and the port is 8080 (the default explicit web proxy port). Web browsers configured to use the proxy server are able to connect to the Internet.

Go to **Policy > Policy > Policy** to see the ID of the policy allowing webproxy traffic.

Web proxy traffic is not counted by security policy.

Policy Type  Firewall  VPN

Policy Subtype  Address  User Identity  Device Identity

Incoming Interface

Source Address

Outgoing Interface

Destination Address

Schedule

Service

Action

**Logging Options**

No Log

Log Security Events

Log all Sessions

Web Proxy Forwarding Server

**Security Profiles**

AntiVirus

Web Filter

Application Control

IPS

DLP Sensor

SSL/SSH Inspection

Create New Edit Delete Section View Global View

Seq.#	ID	Source	Destination	Service	Action	Log	Count
▶ port4 (Internal Interface) - port3 (External Interface) (1 - 2)							
▼ web-proxy - port3 (External Interface) (3 - 3)							
3	3	LAN	all	webproxy	ACCEPT		0 Packets / 0 B
▶ Implicit (4 - 4)							