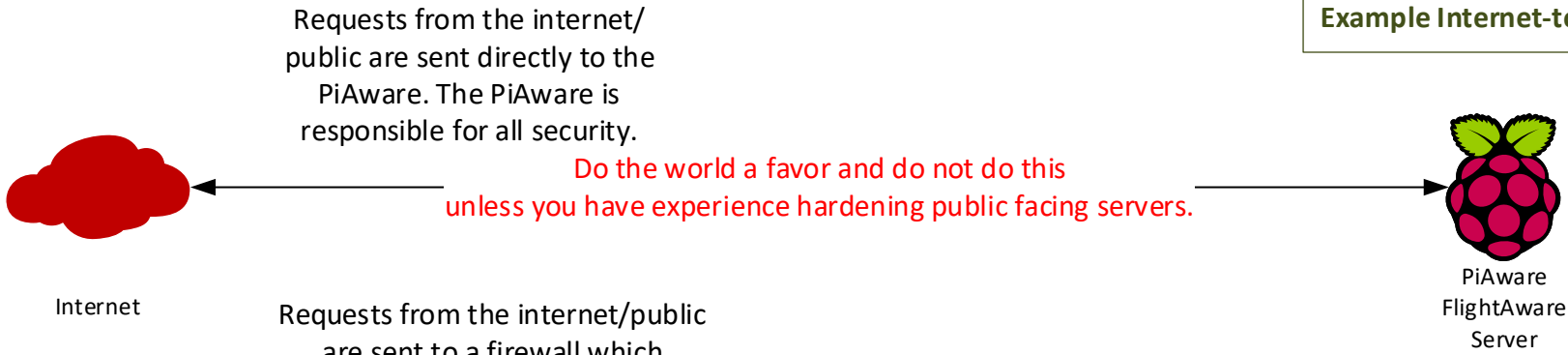
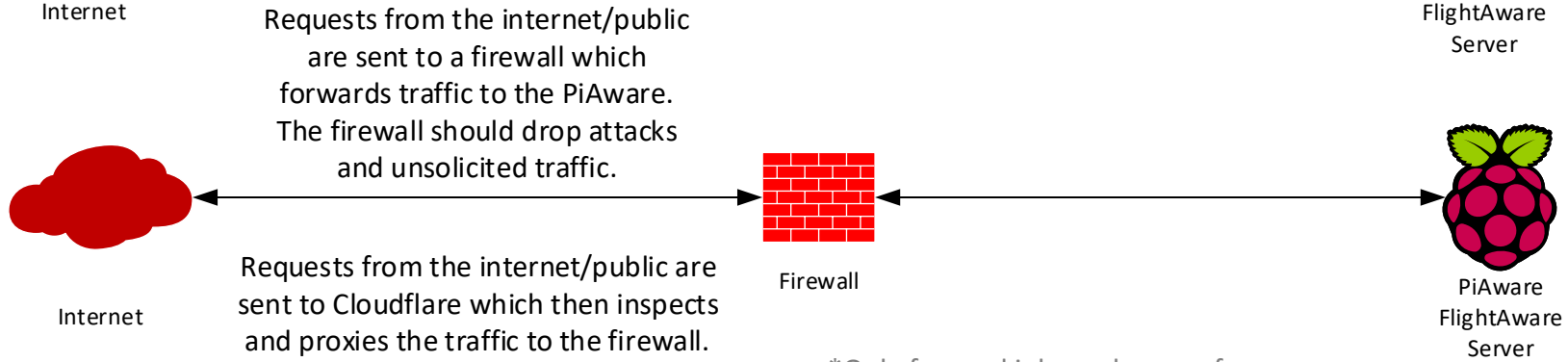


Example Internet-to-PiAware Setup

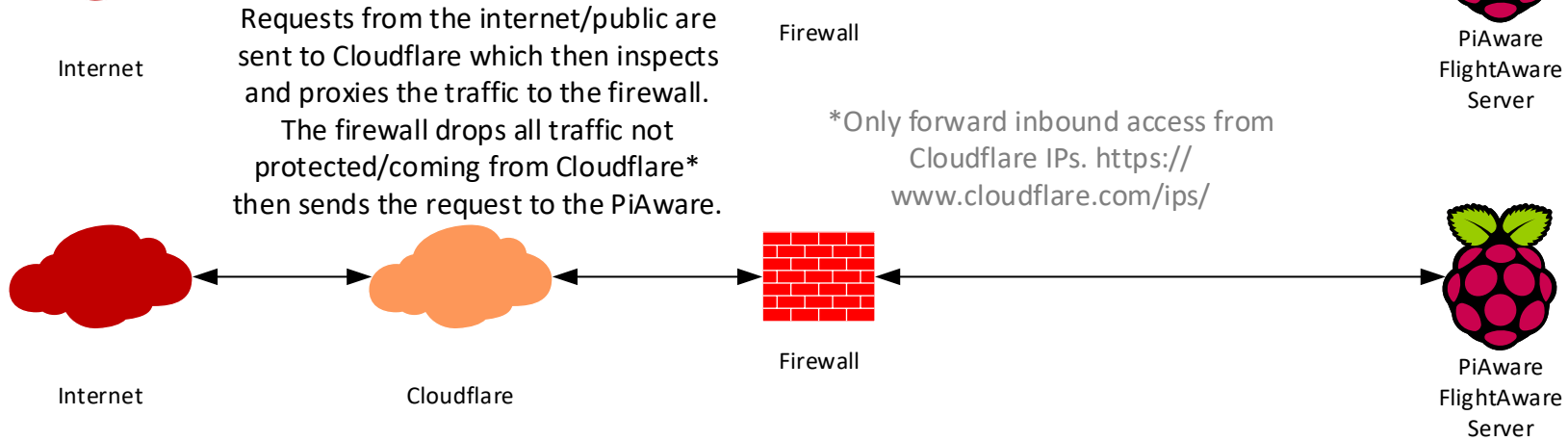
Bad



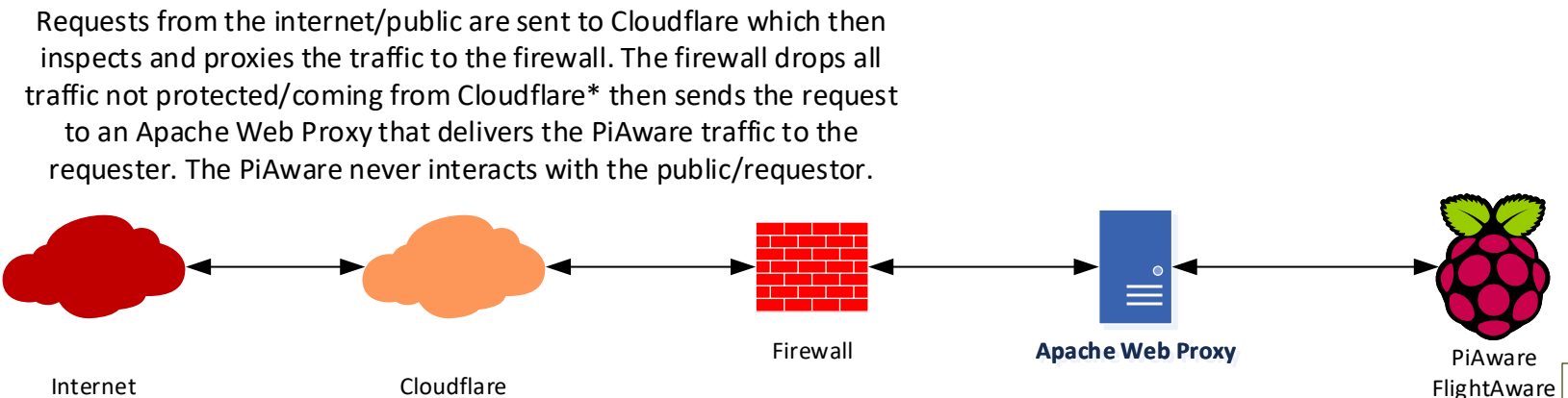
Better



Good



Great



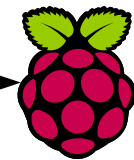
Bad

Requests from the internet/
public are sent directly to the
PiAware. The PiAware is
responsible for all security.

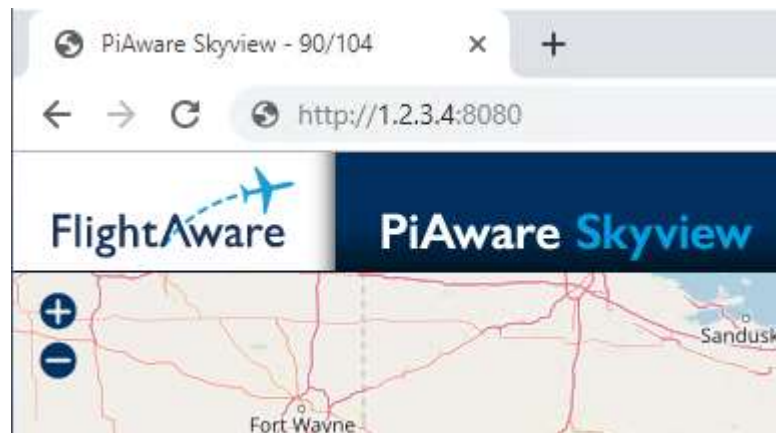


Internet

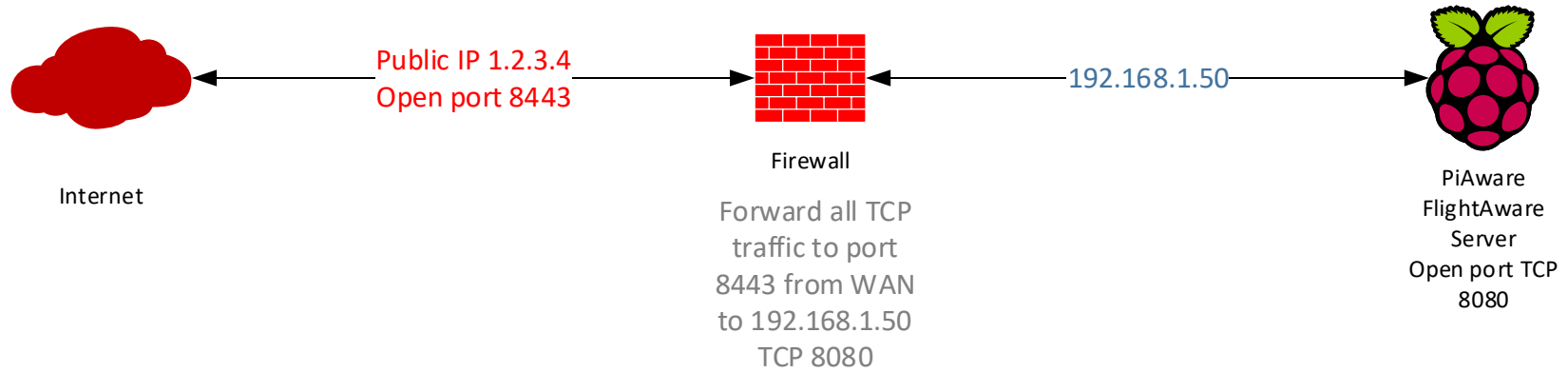
Public IP 1.2.3.4
Open port 8080



PiAware
FlightAware
Server
Open port TCP
8080



Requests from the internet/public are sent to a firewall which forwards traffic to the PiAware. The firewall *should* drop attacks and unsolicited traffic.

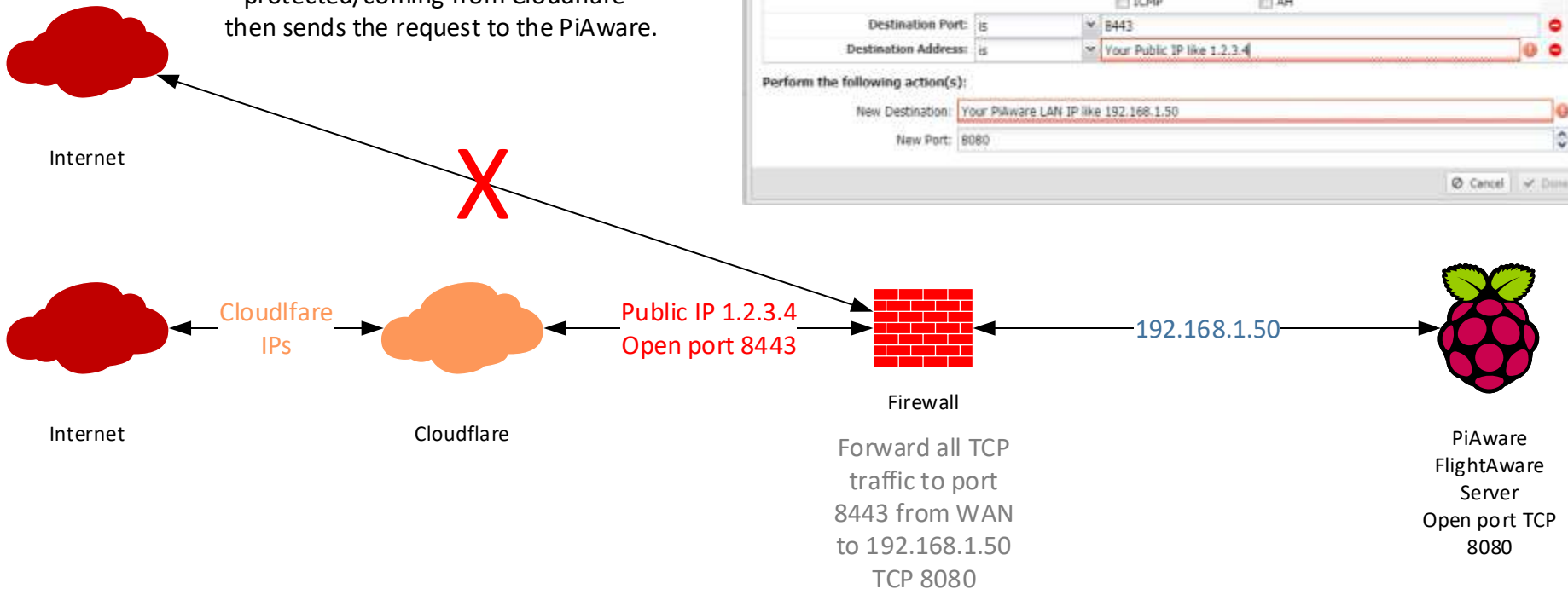
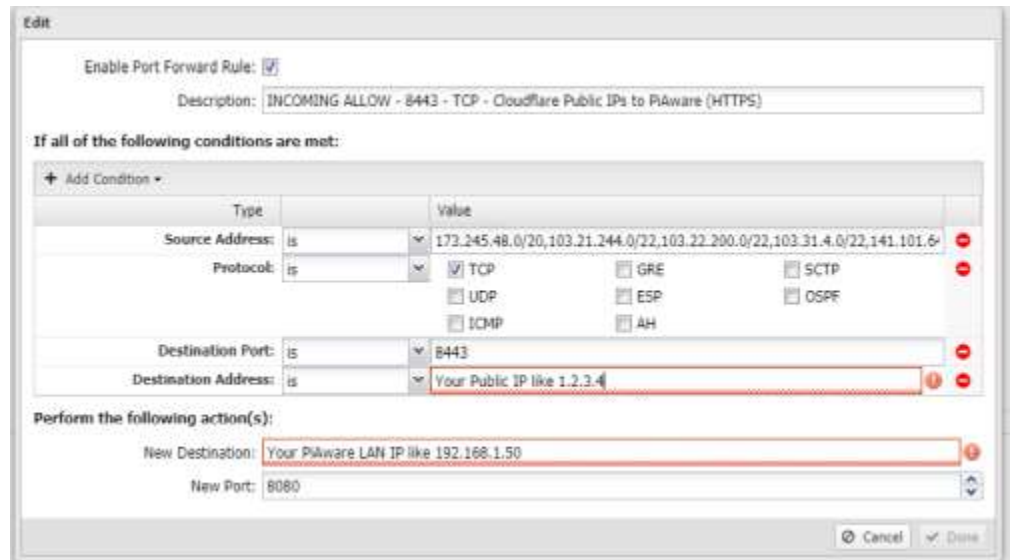


Good

Example Internet-to-PiAware Setup

Requests from the internet/public are sent to Cloudflare which then inspects and proxies the traffic to the firewall.

The firewall drops all traffic not protected/coming from Cloudflare* then sends the request to the PiAware.



Cloudflare limits certain ports for port forwarding. See: <https://support.cloudflare.com/hc/en-us/articles/200169156-Which-ports-will-Cloudflare-work-with->

*Only forward inbound access from Cloudflare IPs. <https://www.cloudflare.com/ips/>

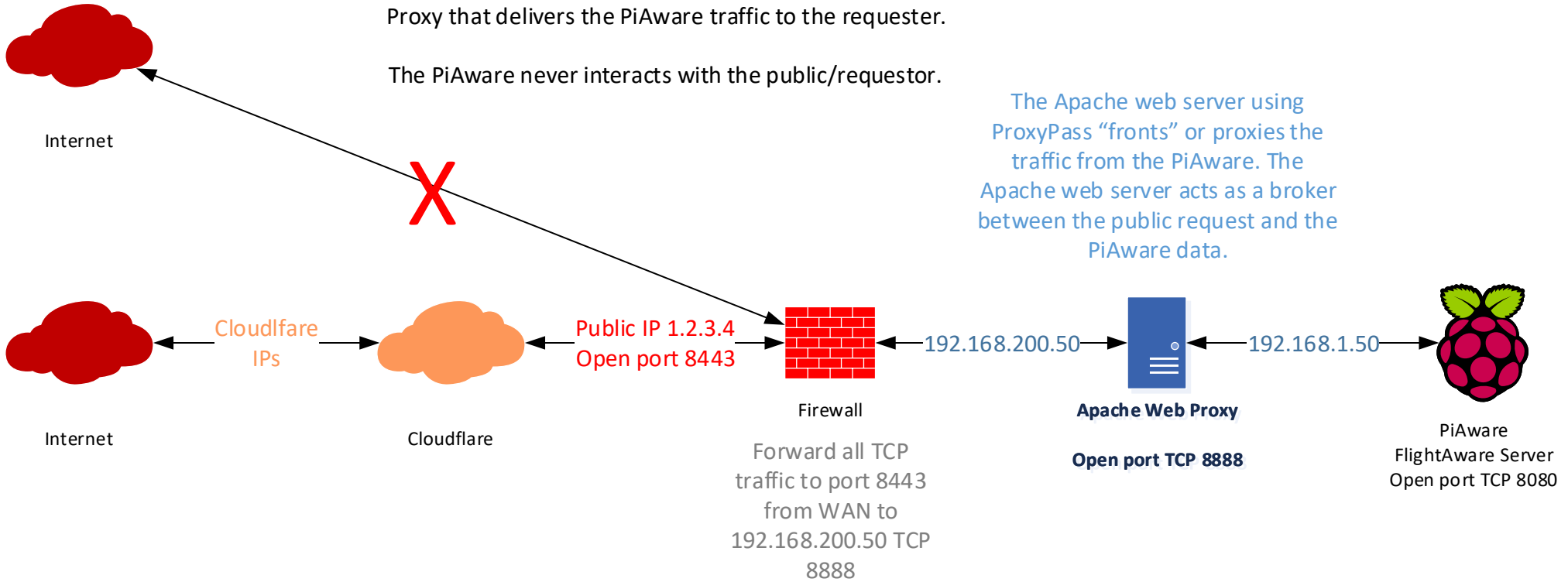
Example Internet-to-PiAware Setup

Great

Requests from the internet/public are sent to Cloudflare which then inspects and proxies the traffic to the firewall.

The firewall drops all traffic not protected/coming from Cloudflare* then sends the request to an Apache Web Proxy that delivers the PiAware traffic to the requester.

The PiAware never interacts with the public/requestor.



The Apache web server using ProxyPass “fronts” or proxies the traffic from the PiAware. The Apache web server acts as a broker between the public request and the PiAware data.

Apache server using ProxyPass

<https://www.techrepublic.com/article/implement-a-reverse-proxy-to-secure-corporate-data/>

Cloudflare limits certain ports for port forwarding. See: <https://support.cloudflare.com/hc/en-us/articles/200169156-Which-ports-will-Cloudflare-work-with->

*Only forward inbound access from Cloudflare IPs. <https://www.cloudflare.com/ips/>