perimeterx

PerimeterX SE / SA Technical Assignment

Objective:
This exercise will demonstrate the ability to deploy a web server, install the different PerimeterX components and invoke the PX snippet to monitor the traffic.

Instructions:
1. Configure a VirtualBox, docker or a VM of your choice and set up NGINX with Lua Support and LuaJIT.
   a. Make sure to read all the requirements in the PerimeterX readme file about the minimum ngx_lua version requirements.
   b. If you prefer, you can install NGINX (or Openresty - nginx + lua complete package) from source. The following reference explains how, steps 1-4: Link
   c. Using your browser of choice, go to **http://your_server_ip** to make sure your server is successfully running and serving web pages.

2. Install the PerimeterX NGINX Lua plugin (https://github.com/PerimeterX/perimeterx-nginx-plugin)
   a. All the required dependencies are in the directory vendor/ - HINT read the VENDOR_SOFTWARE completely before you start
   b. For deployment instructions, read the *README.md* file in the repo.

3. Enable the following parameters in the ***pxconfig.lua*** configuration file
   a. *block_enabled = true*
   b. *captcha_enabled = true*
   c. *send_page_requested_activity = true*
   d. *cookie_secret = <included cookie key>*
   e. *auth_token = <included api token>*

4. Apply the requirements from the README to the ***nginx.conf*** file

5. ☐Apply the PerimeterX access_by_lua statement to the location block in the nginx.conf file (HINT - check the main README file for the basic usage example)

6. Serve a single HTML page that contains our Javascript snippet (see end of this document) - the page doesn't have to serve anything other than the word "Hi" (or whatever you like)

7. Please browse to the PerimeterX console at: https://console.perimeterx.com. Under the Dashboard pane, see that your page views are displayed. If "No results found" appears (please let about 10 minutes after step 7 is completed), check your configuration.

8. *Bonus: Turn on the blocking feature, and try to invoke a block. Hint: Mimic a known tool like PhantomJS*

Deliverables:
1. Please inform us by mail when you have the webpage up and running with the above settings.
2. Send the configuration file containing the PerimeterX configuration parameters - ***/usr/local/lib/lua/px/pxconfig.lua***

3. Please mention any challenges you faced during the exercise.
4. *Note: Please see the JS snippet and the configuration parameters in the following page*

Application ID: PXe1ulKie0
Cookie Secret: uf5VsjtL8Mm2wccNMXy3lHl4UkqtEOstv5RsunUYHxDXsBy8XjNthrWElonAeySM
API Token:

eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJzY29wZXMiOlsicmlza19zY29yZSIsInJlc3RfYXBpIl0sIm
lhdCl6MTUxNzl4Nzl4NSwic3ViIjoiUFhlMXVJS2llMCIsImp0aSI6ImRmOGVhZWRkLTE4MGEtNGZmZi
04YWQxLTdjjOGM5YzRlNGExMyJ9.Zgk0KjlKRiZwT9gJxLDqgyNmQVGP7gljeYdxNqGsfQw

Javascript snippet:

```
<script type="text/javascript">
    (function(){
        window._pxAppId = 'PXyBLJyHio';
        // Custom parameters
        // window._pxParam1 = "<param1>";
        var p = document.getElementsByTagName('script')[0],
            s = document.createElement('script');
        s.async = 1;
        s.src = '//client.perimeterx.net/PXyBLJyHio/main.min.js';
        p.parentNode.insertBefore(s,p);
    }());
</script>
<noscript>
    <div style="position:fixed; top:0; left:0; display:none" width="1"
height="1">
        <img
src="//collector-PXyBLJyHio.perimeterx.net/api/v1/collector/noScript.gif?appId
=PXyBLJyHio">
    </div>
</noscript>
```