



SOLUTIONS

Akamai Cookie Generation

XVI Cookie Gen Guide v3

Author: XVI
XVI SOLUTIONS

AKAMAI COOKIE GENERATION

- 1) Introduction
 - a) Purpose: Generate valid sensor data
 - b) Development Platform: Desktop => Windows 10/MacOS
 - c) General Info:
 - i) Antibot Systems
 - (1) Akamai (current version 1.63)
 - (2) How Akamai Works (all commands are evaluated in web console)
 - (a) Mouse motion/clicks, and other interaction are collected/updated with, `bmak.cma()`, `bmak.cdma()`, etc.
 - (b) Send the `bmak.aj_indx` = parameter to indicate what *Akamai wall* you are on
 - (i) Ftl example: before atc `aj_indx` is 1, in cart `aj_indx` is 2, payment `aj_indx` is
 - (c) Send `bmak.wr = ANGLE` (*your GPU here* `Direct3D11 ps_5_0 vs_5_0`) to *fake* the GPU
 - (d) Finalize sensor data by sending `bmak.bpd()`
 - (e) Sensor Data => External Server => `_abck` (note: valid `_abck` cookies look different per site!)
 - (i) The external server looks at this data with an NN and if it looks like a bot then it won't distribute a valid cookie
 - (ii) The sensor data is all generated by a **LOCAL JS** script in the browser that is easy to de-obfuscate (this repo should have it...)
 - (iii) Although valid cookies look different, they *should* have "==" at the end of the cookie
 - (f) if `_abck` is valid and matches the session cookie, then Akamai will let you into the endpoint you are trying to access (checkout/cart/etc.)
 - (i) Some sites have multiple akamai "walls" (ex. Footlocker needs 3 cookies per task)
 - 2) Description
 - a) Program Flow:
 - i) Method A (Good):
 - (1) Cookie gen can be done with ghost-cursor
 - (a) This is **SEMI REQUESTS** and more expensive
 - (2) Checkout is continued through pup or done by requests
 - (a) The important part is that a browser must be opened to get past akamai
 - ii) Method B (Better):
 - (1) Pre-generate sensor data before drop with puppeteer/ghost-cursor in our own page
 - (a) This is **SEMI REQUESTS**
 - (b) The sensor gen code can be used to make a
 - (2) edit timestamp of the sensor data to reflect current time
 - (3) open a browser once we pass splash page
 - (4) checkout and submit cookie & payment through puppeteer
 - (a) this means session spec cookie does not matter so less data being pushed
 - iii) Method C (Best)
 - (1) Pre-Generate cookies/session cookie with puppeteer/ghost-cursor
 - (2) Send to JSON file
 - (3) Read from JSON file and use in bot as needed
 - (a) YS cookies are good for a bit
 - (b) This is **PURE REQUESTS**
 - 3) Things to Keep in Mind
 - a) The limit for generating cookies is 10 cookies per IP but we can probably bypass this
 - b) There are better ways to do this, but browser gens are a good start
 - c) If you plan on making non-browser gens, cubic Bezier curves with intermediate points on one side of their parent line are a good start.
 - d) This guide isn't everything about akamai but should help people get a start
 - e) Sometimes TLS fingerprinting can ruin your day
 - f) "ping that mf endpoint"