CTF Writeup: "Only Samsung Smart Fridge Owners Can Access This"

Introduction

In this Capture The Flag (CTF) challenge, we need to access a special webpage that only Samsung Smart Fridge owners can see. To do this, we have to change something called the "User Agent" in our web browser. Don't worry if you don't know what that means yet—I'll explain everything!

What is a User Agent?

A User Agent is like a name tag for your web browser. When you visit a website, your browser tells the website what kind of device you're using (like a phone, computer, or even a smart fridge!). For this challenge, we need to pretend our browser is a Samsung Smart Fridge.

Steps to Solve the Challenge

1. **Open Your Web Browser**: Start by opening your web browser (like Chrome or Firefox).

2. **Install a User Agent Switcher**: We need a tool to change our User Agent. You can find a "User Agent Switcher" extension in your browser's extension store. Here's how to do it:

   - For Chrome: Go to the Chrome Web Store and search for "User Agent Switcher".
   - For Firefox: Go to the Firefox Add-ons site and search for "User Agent Switcher".

3. **Change the User Agent**:

   - Open the User Agent Switcher extension.
   - Look for an option to add a custom User Agent.
   - Enter the User Agent string for a Samsung Smart Fridge. It might look something like this:
     `Mozilla/5.0 (Linux; Tizen 2.4.0) AppleWebKit/537.3 (KHTML, like Gecko) SamsungBrowser/1.1.`

4. **Visit the Special Webpage**:

   - Now that your browser is pretending to be a Samsung Smart Fridge, go to the special webpage URL given in the challenge.
   - You should now be able to access the page and find the flag (a secret code or message).

Why Does This Work?

Websites can show different content based on the User Agent. By changing our User Agent to match a Samsung Smart Fridge, the website thinks we're using one and lets us in.

Conclusion

That's it! You've successfully completed the challenge by changing your User Agent to a Samsung Smart Fridge. This trick can be useful in many CTF challenges where you need to pretend to be a different device or browser.