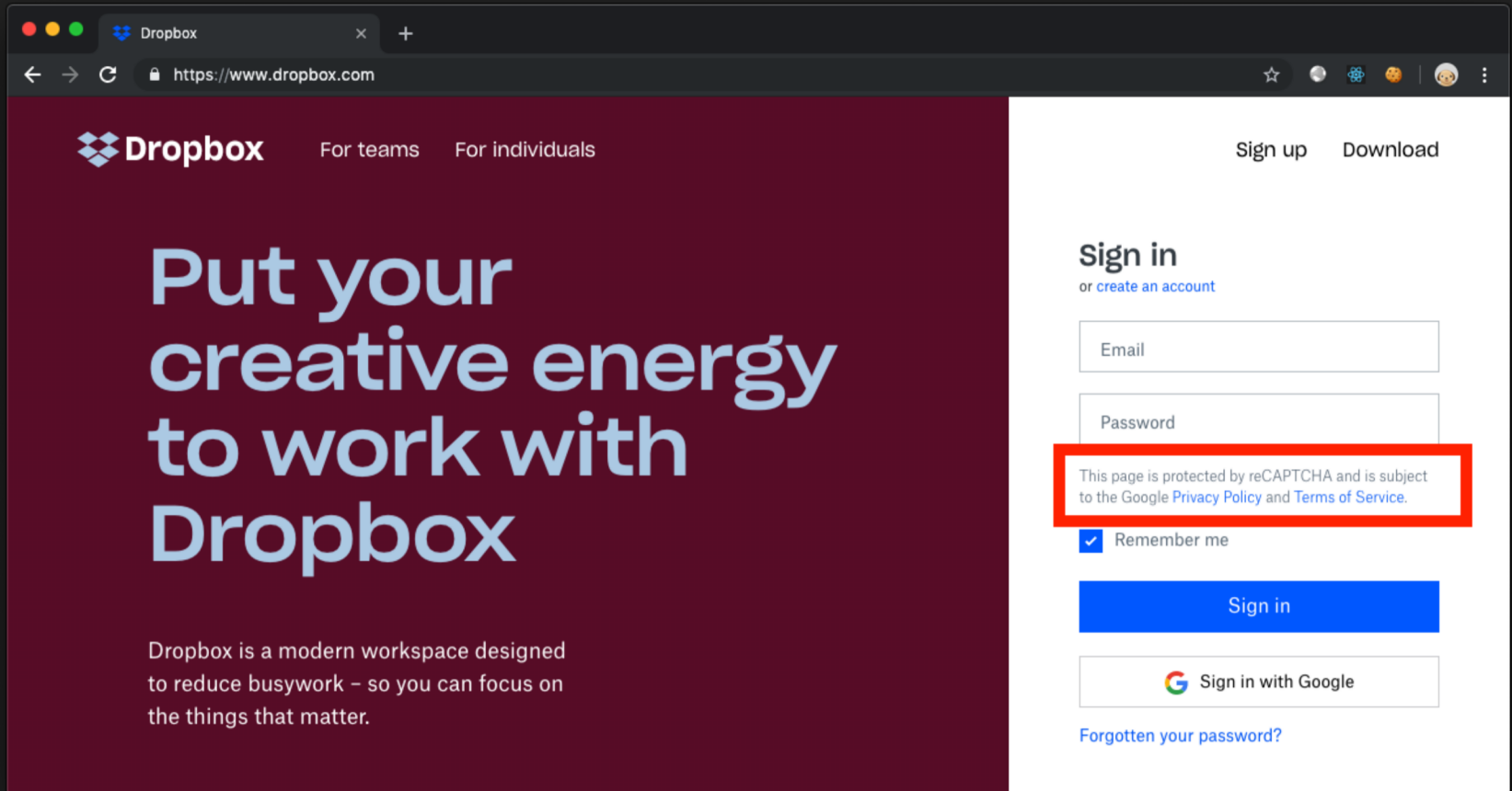


# REVERSING ANTI-REVERSE PROXY: DROPBOX



## ► The reCAPTCHA challenge



The screenshot shows a web browser window with the URL <https://www.dropbox.com>. The page features the Dropbox logo and navigation links for "For teams" and "For individuals". The main heading reads "Put your creative energy to work with Dropbox". Below this, a paragraph states: "Dropbox is a modern workspace designed to reduce busywork – so you can focus on the things that matter."

On the right side of the page, there is a "Sign in" section. It includes a "Sign up" link and a "Download" link. The "Sign in" section has a heading "Sign in" and a link "or [create an account](#)". Below this are two input fields: "Email" and "Password". A red rectangular box highlights a message that reads: "This page is protected by reCAPTCHA and is subject to the Google [Privacy Policy](#) and [Terms of Service](#)." Below this message is a checkbox labeled "Remember me" which is checked. At the bottom of the sign-in section is a blue "Sign in" button. Below the button is a "Sign in with Google" button, which includes the Google logo. At the very bottom of the sign-in section is a link: "Forgotten your password?".

# REVERSING ANTI-REVERSE PROXY: DROPBOX



## ► The reCAPTCHA challenge

Dropbox For teams For individuals

Sign up Download

Put your creative energy to work with Dropbox

Email

Password

This page is protected by reCAPTCHA and is subject to the Google [Privacy Policy](#) and [Terms of Service](#).

ERROR for site owner:  
Invalid domain for site key

reCAPTCHA  
Privacy - Terms

Elements Console Sources Network Performance Memory Application Security Audits React EditThisCookie

```
<script type="text/javascript" nonce="zPF3NdXifa0Zm5MpQJj4Fw">
  recaptcha.anchor.ErrorMain.init(["\x22ainput\x22,null,null,null,null,[1,1,1]\n,\x22Invalid domain for site
  key\x22,6,null,null,null,[\x22https://drb-17.phishing.anti/intl/en-GB/policies/privacy/\x22,\x22https://drb-
  17.phishing.anti/intl/en-GB/policies/terms/\x22]\n\n");
  == $0
</script>
<div class="rc-anchor rc-anchor-normal rc-anchor-light">
  <div id="recaptcha-accessible-status" class="rc-anchor-aria-status" aria-hidden="true">Invalid domain for site key. </div>
  <div class="rc-anchor-error-msg-container" style="display:none"></div>
  <div class="rc-anchor-content">
    <div class="rc-inline-block">
      <div class="rc-anchor-center-container">
        <div class="rc-anchor-center-item rc-anchor-error-message"></div>
      </div>
    </div>
  </div>
  <div class="rc-anchor-normal-footer"></div>
</div>
</body>
```

html body #embedded-app div section section div #component2830905841732824446 div div div form div div div div iframe html body script (text)

Styles Computed Event Listeners »

Filter :hov .cls +

No matching selector or style

# REVERSING ANTI-REVERSE PROXY: DROPBOX



## ► The reCAPTCHA challenge

The screenshot shows a web browser with the URL `https://www.phishing.anti/#`. The page displays the Dropbox logo and navigation links. The browser's developer tools are open, showing the Network tab. A list of requests is displayed, with the selected request being a reCAPTCHA challenge. The details of this request are shown in the right pane.

**Request Details:**

- Request URL:** `https://drb-17.phishing.anti/recaptcha/ap12/anchor?ar=1&k=6LdnLyIUAAAA01GPTddh-g3K1JRoDGG6D-6dqXo&co=aHR0cHM6Ly93d3cucGhpc2hpbmcuYW50aTo0NDM.&hl=en-GB&v=v15559686297166&size=invisible&cb=aq13mkssrpd`
- Request Method:** GET
- Status Code:** 200 OK
- Remote Address:** 127.0.0.1:31337
- Referrer Policy:** origin-when-cross-origin
- Response Headers:**
  - Alt-Svc: quic=":443"; ma=2592000; v="46,44,43,39"
  - Cache-Control: private, max-age=0
  - Connection: close

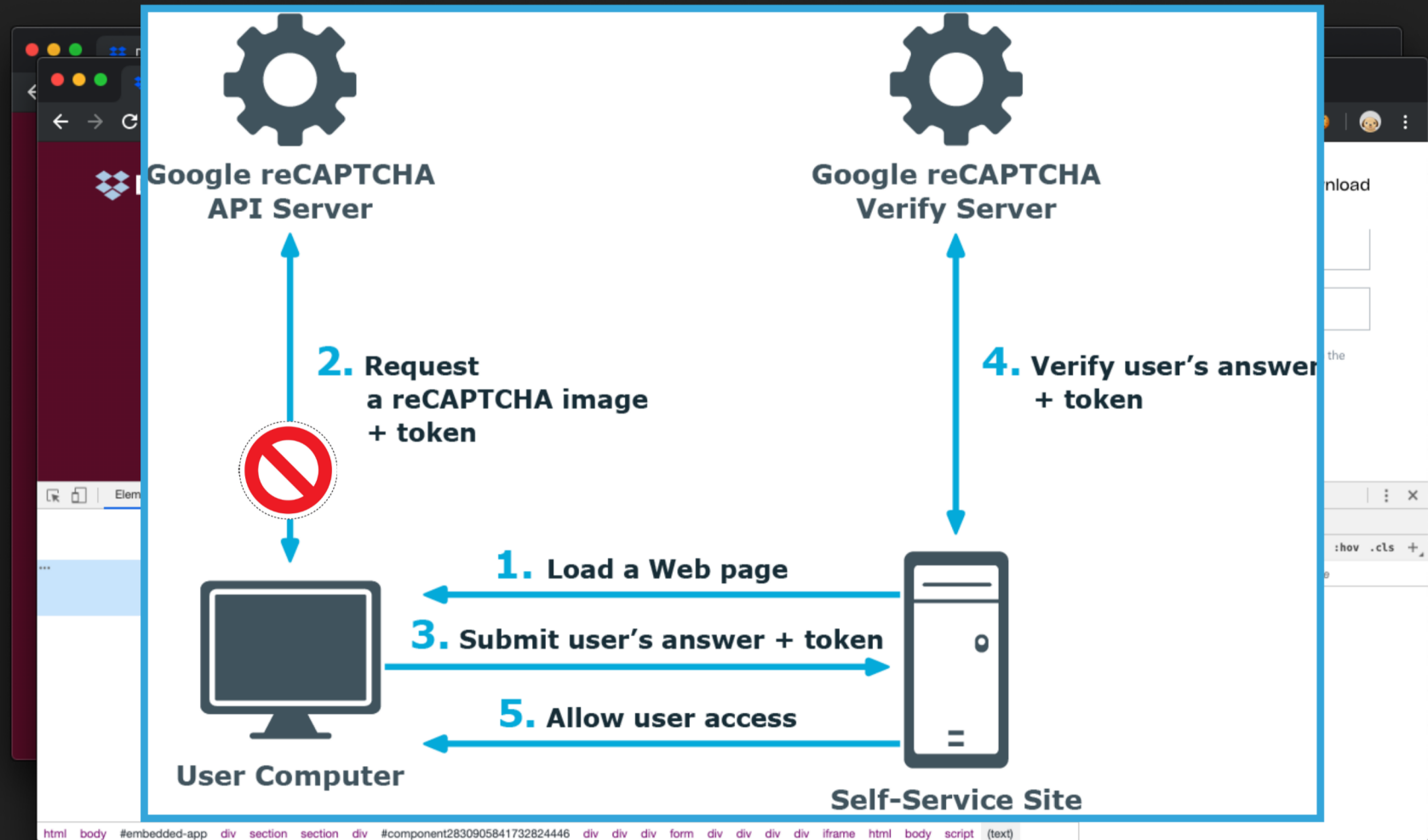
The console shows the following JavaScript code:

```
atob('aHR0cHM6Ly93d3cucGhpc2hpbmcuYW50aTo0NDM')  
"https://www.phishing.anti:443"
```

# REVERSING ANTI-REVERSE PROXY: DROPBOX



## ► The reCAPTCHA challenge





- ▶ The reCAPTCHA challenge
- ▶ The fix: base64 transformation support:

```
"transform": {  
  "base64": {  
    "enabled": true,  
    "padding": [  
      "=",  
      "."  
    ]  
  },  
}
```

# WHERE TO FIND THE CODE

---

