

Rise of Oriental Gudgeon May 6, 2025

 urlscan.io/blog/2025/05/06/oriental-gudgeon/



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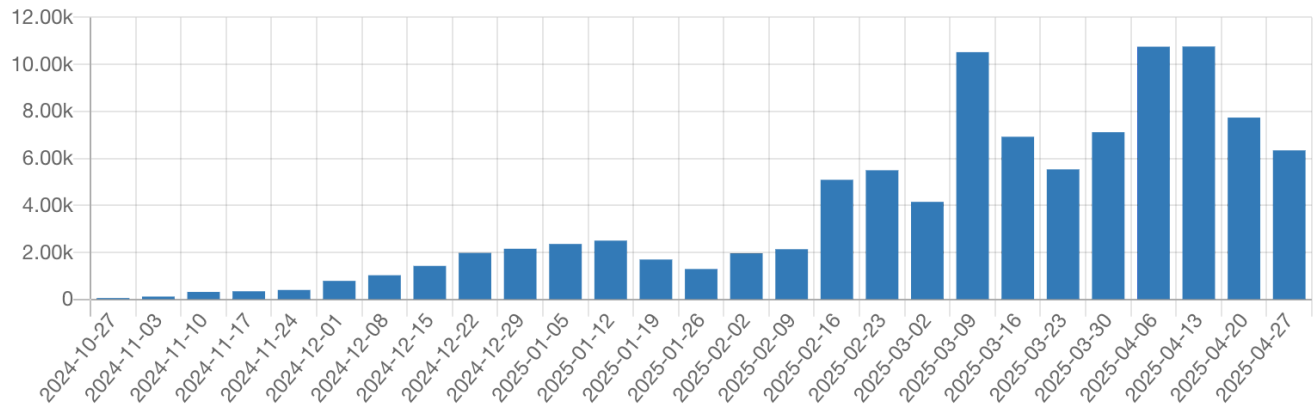
This is the first ever research-oriented post on the urlscan blog. Our goal with these posts is to cover malicious activity we have not seen covered by other researchers. Will also showcase how urlscan.io and urlscan Pro can be used to track the types of activities we cover in these posts.

Since October 2024, we have observed a phishing kit impersonating dozens of Japanese commercial entities, primarily companies in the financial services sector. The phishing kit will impersonate the website of these organizations and their brands with the goal of obtaining valid login credentials of legitimate users of these sites.

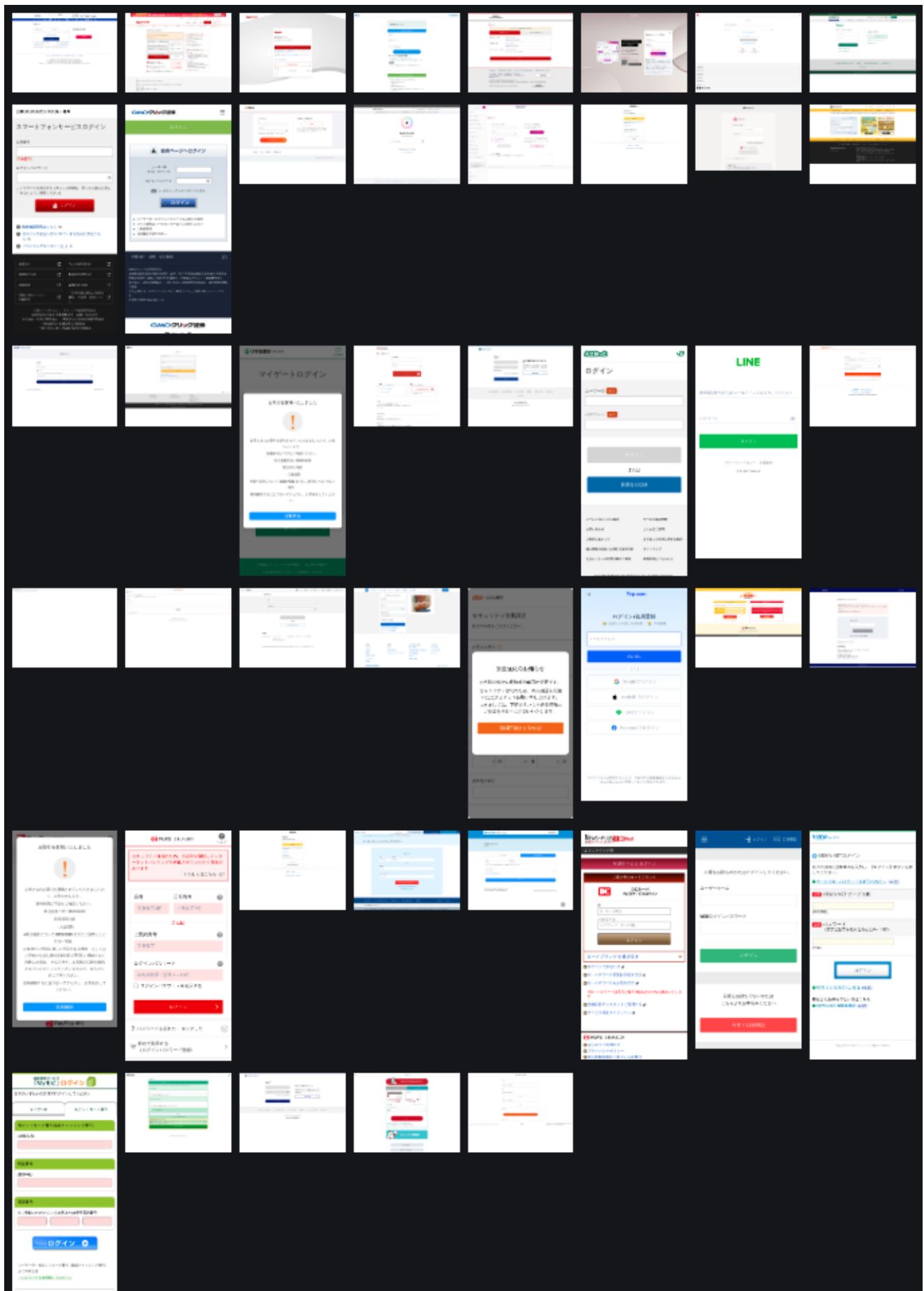
We are currently tracking this activity under the name *Oriental Gudgeon* due to its suspected Chinese origin. Oriental Gudgeon has recently expanded its targeting to include more than 40 Japanese companies.

In this blog post, we will highlight the timeline of Oriental Gudgeon’s activity, the organizations being targeted, its attack flow, and how urlscan.io can be used to discover and analyze its activity.

Targeting and Timeline



Weekly website scans observed on urlscan Pro



Screenshots of landing pages captured on urlscan Pro

A list of organizations that have been targeted by Oriental Gudgeon we've observed (as of 2025/05/02) is:

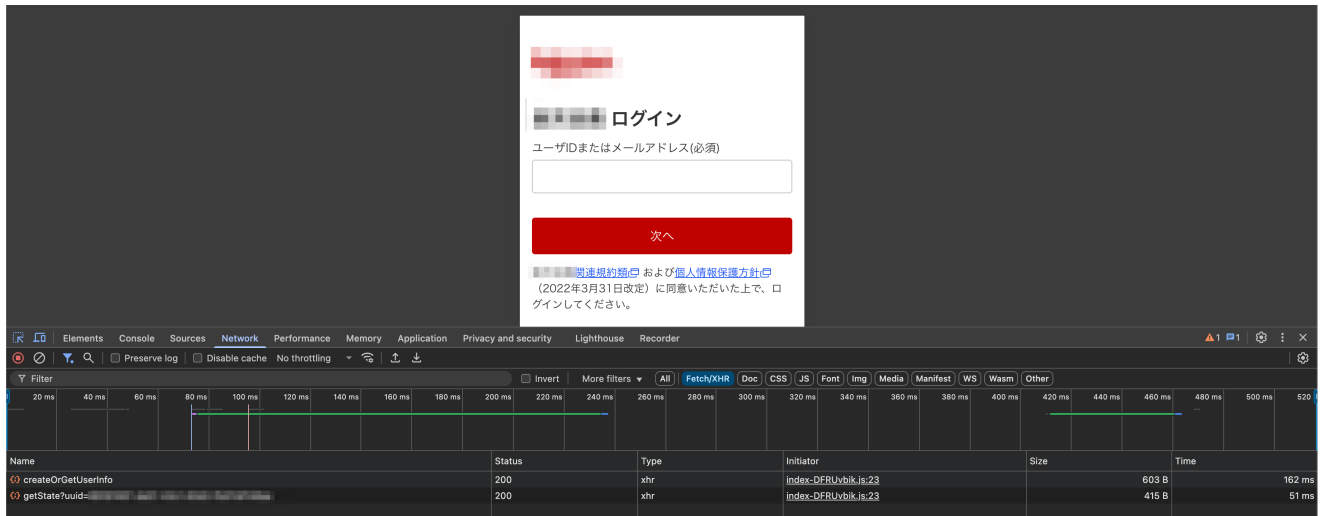
- AEON Card
- Aiful
- Amazon
- American Express
- ANA
- Apple
- au Jibun Bank
- au PAY Card
- DMM.com
- Epos Card
- GMO Click Securities
- Hokuyo Bank
- JACCS
- JAL Card
- JCB
- JR East
- LINE
- Mitsubishi UFJ Bank
- Mitsubishi UFJ Morgan Stanley Securities
- Mitsubishi UFJ Nicos
- Mizuho Bank
- Monex Securities
- N-Planet
- NHK
- Nomura Securities
- NTT Docomo
- Orico
- Paidy
- PayPay
- PayPay Bank
- Rakuten
- Rakuten Securities
- Resona Bank
- Saison Card
- SBI Net Bank
- SBI Securities
- SMBC Mobit

- Sumitomo Mitsui Card
- Trip.com
- UC Card
- Yodobashi Camera
- Yokohama Bank

Attack Flow

- Targeting starts with a phishing e-mail:
 - A typical subject line might contain アカウントへの不審アクセスに関する重要なお知らせ which translates to Important notice regarding suspicious access to your account.
- Phishing website anatomy:
 - A phishing website is a Vue based SPA and it has two parts, a landing component, and phishing components.
 - Landing component: controls access to the site based on several visitor attributes (see the following [Unveiling Cloaks](#) section for details). Only allows Japanese victims to access the site.
 - `POST /visitors/info/createOrGetUserInfo`: creates or gets a victim's information in their backend. Assigns a UUID per victim.
 - `GET /visitors/info/getState?uuid={UUID}`
 - Phishing components: steal credentials, PIN code, etc.
 - `POST /visitors/info/saveLoginInfo`: saves victim's login information.
 - `POST /visitors/info/saveAccountInfo`: saves victim's account information. (Optional)
 - `POST /visitors/info/saveVerificationData`: saves victims' verification data. (Optional)
 - `POST /visitors/info/savePinCode`: saves victims' pin code. (Optional)
 - `POST /visitors/info/savePasscode`: saves victims' passcode. (Optional)
 - `POST /visitors/info/saveCreditCardInfo`: saves victims' credit card information. (Optional)
 - Etc.

For example, a phishing email like [this](#) navigates a victim to a phishing website impersonates a Japanese credit card service:

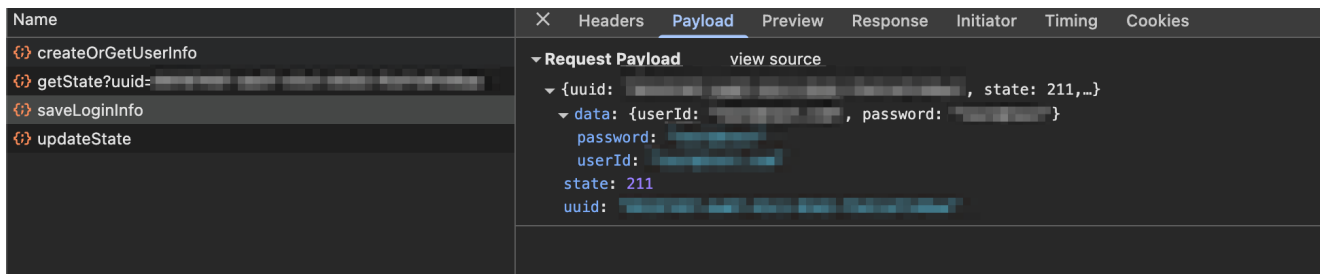


Landing component: **POST /visitors/info/createOrGetUserInfo**

The screenshot shows a web browser with a password input form. The form has a label "パスワード(必須)" (Password (required)) and a text input field. Below the field is a checkbox labeled "パスワードを表示する" (Show password). At the bottom, there is a red button labeled "次へ" (Next).

Below the form, there are links for "パスワードをお忘れの方" (Forgot your password?) and "別でログイン" (Log in with another account?).

At the bottom, there is a language selector set to "日本語" (Japanese) and links for "ヘルプ" (Help), "個人情報保護方針" (Privacy Policy), and "会員規約" (Terms of Service).



Phishing component: **POST /visitors/info/saveLoginInfo**

を初めてご利用いただく場合や、以前お手続きいただいたと異なるIDでログインされた場合は の開始手続きが必要となります。

お手元 を準備いただき、下記入力フォームよりお手続きをお願いいたします。

サービス開始手続き：入力

○ 〇 〇

当前 確認 完了

会員様向けオンラインサービスで、ご利用明細の確認やお客様情報の変更等が可能です。

ご本人様確認のため、下記の項目をご入力のうえ、「確認画面へ」ボタンを押してください。

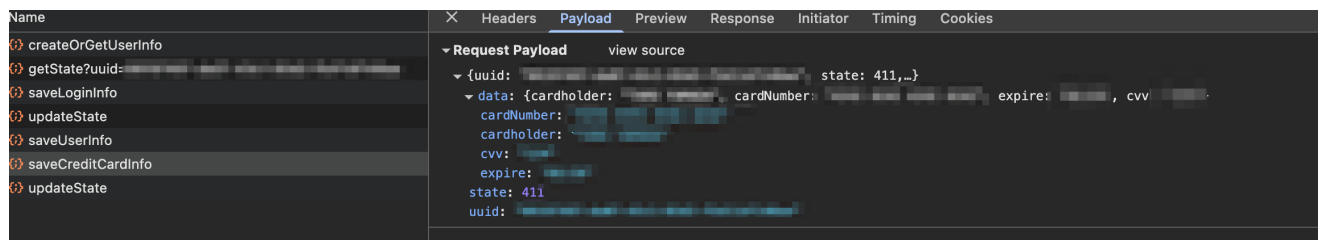
必須 カード名義人

半角ローマ字で入力

カード名義人

必須 カード番号

カード番号を入力してください



Phishing component: `POST /visitors/info/saveCreditCardInfo`

Unveiling Cloaks

Oriental Gudgeon uses several [cloaking](#) techniques:

- IP based geo blocking: redirects the user to a benign website if the user is not located within Japan.
- User-info blocking: cloaks itself (shows 404 page) by closing the `/visitors/info/createOrGetUserInfo` API endpoint.

Fortunately, the urlscan.io platform contains multiple features to bypass these blocking techniques.

Geo Blocking

For scanning websites on urlscan.io, you can choose the scanner country:

▶ Public Scan

JP

Options

Scan Visibility

☒ Public
☐ Unlisted
☐ Private

Make sure you understand the different [visibility levels](#). Public Scans will be visible to other users.

Country Selection

Controls which country the URL will be scanned from.

☐ Auto
☐ DE
☐ US
☒ JP
☐ FR
☐ GB
☐ NL
☐ CA

☐ IT
☐ ES
☐ SE
☐ FI
☐ DK
☐ NO
☐ IS
☐ AU

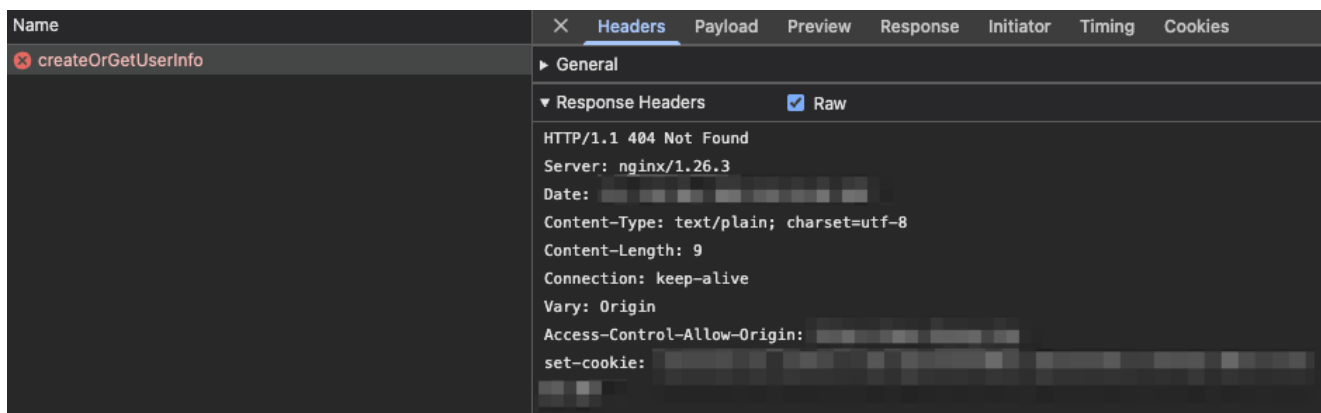
☐ NZ
☐ PL
☐ SG
☐ PT
☐ AT
☐ CH
☐ IL
☐ TR

☐ DO
☐ XX

To bypass Oriental Gudgeon’s geofence, you should select the Japan (JP) scanning location. This feature is available for all urlscan.io users. Customers of the urlscan Pro platform are also able to use residential IP addresses to analyze suspicious URLs.

User-info Blocking

Oriental Gudgeon closes its operation windows by disabling the **POST** `/visitors/info/createOrGetUserInfo` API endpoint. More specifically, it changes to return 404 from the endpoint:



It leads to showing a blank 404 page:

404 Error: Page not found

urlscan Pro recently introduced a new feature that allows [Custom Javascript injection for Live Scanning](#), which is available for customers on the urlscan Pro platform. Using our custom Javascript snippet we can bypass the block because of flaws in Oriental Gudgeon’s access control management.

```

async function Qi() {
  try {
    const e = localStorage.getItem("uuid");
    if (e) {
      const t = new Gi({
        type: "user",
        uuid: e,
        isNewUser: !1,
      });
      if (!t.isConnected())
        t.connect()
          .then(() => {
            const s = Ls(Fs);
            s.provide("socketClient", t), s.use(Ns()), s.mount("#app");
          })
          .catch((s) => {
            console.error("WebSocket连接失败", s);
          });
      else {
        const s = Ls(Fs);
        s.provide("socketClient", t), s.use(Ns()), s.mount("#app");
      }
    } else {
      const t = await le.post("/visitors/info/createOrGetUserInfo", {
        currentState: 2,
        browserInfo: ip(),
        domain: window.location.hostname,
        codeName: "日本rakuten乐天证券",
        buttons: {
          skip: ["2", "31", "5", "7", "9", "14", "53"],
          reject: ["2", "31", "5", "7", "9", "14", "53"],
        },
        views: [],
        extraData: {
          phonemessage: "客户电话|验证电话/或只输入客户电话",
        },
      }),
      { code: s, data: n } = t;
      if (s === 1e3) {
        localStorage.setItem("uuid", n.uuid),
          localStorage.setItem("deductionStatement", n.deductionStatement),
          localStorage.setItem("price", n.price),
          localStorage.setItem("code", n.code),
          n.extraData &&
            n.extraData.customCaptchaOptions &&
            JSON.stringify(n.extraData.customCaptchaOptions) !== "{}" &&
            localStorage.setItem(
              "customCaptchaOptions",
              JSON.stringify(n.extraData.customCaptchaOptions)
            );
        const o = new Gi({
          type: "user",

```

```

    uuid: n.uuid,
    isNewUser: !0,
  });
  if (!o.isConnected())
    o.connect()
      .then(() => {
        const i = Ls(Fs);
        i.provide("socketClient", o), i.use(Ns()), i.mount("#app");
      })
      .catch((i) => {
        console.error("WebSocket连接失败", i);
      });
  else {
    const i = Ls(Fs);
    i.provide("socketClient", o), i.use(Ns()), i.mount("#app");
  }
}
} catch (e) {
  console.error("应用初始化失败:", e);
}
}

```

A part of unminified JavaScript code we analyzed

It uses the local storage to persistent UUID (`const e = localStorage.getItem("uuid");`) and calls `POST /visitors/info/createOrGetUserInfo` if there is no UUID in there. By setting a crafted UUID in the browser's local storage via the custom eval script injection, we can make the check pass.

Submitted: [redacted] Scan State: ✓ Stored on urlscan.io

- HTTP Status: 200 text/html
- Outgoing links: 0 links [Live Scan](#)
- Page IP Address: 43.163.215.248 [2347 scans](#)
- Effective URL: https://zzmwjj.com/plenfollowaster-login/ [74 scans](#)
- Hostname: zzmwj.com [80 scans](#)
- Data Transfer: 5 requests

urlscan Pro: Live scan of a malicious site without any extra options

Submitted: [redacted] Scan State: ✓ Stored on urlscan.io

- HTTP Status: 200 text/html
- Outgoing links: 4 links [Live Scan](#)
- Page IP Address: 43.163.215.248 [2347 scans](#)
- Effective URL: https://zzmwjj.com/plenfollowaster-login/ [74 scans](#)
- Hostname: zzmwj.com [80 scans](#)
- Data Transfer: 7 requests

urlscan Pro: Live scan of the same site using a custom evalScript injection

Attribution

Our current working theory is that the Oriental Gudgeon threat actor is a native Chinese speaker. This theory is based on several artifacts we discovered while analyzing their phishing kit:

- Their JavaScript code (see snippet above) contains the error message 应用初始化失败 which is written in Simplified Chinese. Request payloads also contain Simplified Chinese, for example 客户电话.
- The initial phishing email was sent from Chinese networks. There has been a recent shift towards using residential proxies though. ([Spamhaus observes the same trend](#))

Tracking - urlscan Pro

We have shared our tracking rules for Oriental Gudgeon within the urlscan Pro portal through a Saved Search. Customers of the urlscan Pro platform can get updated results using our hunting rules: [urlscan Pro - Oriental Gudgeon](#).

Appendix 1: IOCs

To date we have observed the following domains as part of this activity.