

CoCo flagged extension position 1->100:

1. Aahnibhpidkdaeaplfldogejgoajkjgob FP

Hardcoded url `const FirstSettings = { host: 'https://localhost:8080/gui/'`

- a. `bg_chrome_runtime_MessageExternal` → `fetch_resource_sink`. Change params in the fetch with a param that can be torrent server set by attacker. In this case the test

```
function addTorrents(settings, link, where) {
  GetTokenNew(settings, function (token, cookie) {
    let params = "?action=add-url&download_dir=0&token=" + token +
    "&s=" + encodeURIComponent(link);

    if (where !== ROOT_FOLDER) params += "&path=" + where;

    const myHeaders = new Headers({
      Authorization: "Basic " + btoa(settings.user + ":" +
settings.password),
    });

    return fetch(settings.host + params, {
      method: "GET",
      headers: myHeaders,
    });
  });
}
```

```
chrome.runtime.sendMessage(
  "aahnibhpidkdaeaplfldogejgoajkjgob", // BitTorrent extension ID
  {
    type: "ADD_TORRENT",
    url: "magnet:?xt=urn:btih:MALICIOUS&dn=payload",
    folder: "../../../../../etc", // Path traversal
  }
);
```

2. Aajfadplooajoiepmofheifpbhdakoa TP

- a. `storage_local_get_source` to `window_postMessage_sink`. Only get no set

```
window.addEventListener("message", function(event) {
  if (typeof event.data.method !== "undefined") {
    let method = event.data.method
    if (method === "get") {
      chrome.storage.local.get(key, dateResult => {
```

```

        let messge = {}
        messge.method = "result"
        messge.result = dateResult
        window.postMessage(messge)
    })
} else if (method == "delete") {
    chrome.storage.local.remove(key, function() {
        console.log("remove")
    })
}
}
})

```

3. Aakfndbelpdpdigmhlknaahhhmlmhkoo FP CoCo

- a. Sink XMLHttpRequest_responseText_source to chrome_storage_sync_set_sink . called at start - gets data from fixed URL and stores.

```

function Twitch() {
    chrome.storage.sync.get('twitch_online', function (obj) {
        var xmlHttp = new XMLHttpRequest();
        xmlHttp.open("GET",
"http://nocache.armakiss.fr/webservices/twitch.php", true);
        xmlHttp.send();
        xmlHttp.onreadystatechange = function () {
            if (xmlHttp.readyState == XMLHttpRequest.DONE) {
                if (xmlHttp.status == 200) {
                    var rep = JSON.parse(xmlHttp.responseText);
                    chrome.storage.sync.set({ 'twitch_title': rep.twitch_title });
                    chrome.storage.sync.set({ 'twitch_game': rep.twitch_game });
                    chrome.storage.sync.set({ 'twitch_preview': rep.twitch_preview });
                    chrome.storage.sync.set({ 'twitch_online': rep.twitch_online });
                }
            }
        }
    });
}

```

4. Aallcmelejdfkmcldijkkloblonbeiap TP

- a. Sink document_eventListener_bs_vote to chrome_storage_local_set_sink . called at start - gets data from fixed URL and stores.
- b. Sink 2 exportFunction("saveEncounter" 2*g

```

var exportFunction = function(name, func){
    document.addEventListener("bs_"+name, function(event) {
        var result = func(event.detail.params);
        document.dispatchEvent(new
CustomEvent(event.detail.resultListenerKey, { detail: result }));
    });
    exportFunction("vote", function (params) {
        var profileId = params.profileId;
    });
}

```



```
AccountAge: userData["created"]} }));})
```

6. Aammadfjipifnmldklpdcfdmfnfpempk FP

a. fetch_source to chrome_storage_local_set_sink FP: fetch from hardcoded url

```
chrome.runtime.onInstalled.addListener(function (object) {  
  
    if (object.reason === chrome.runtime.OnInstalledReason.INSTALL) {  
        chrome.tabs.create({ url:  
chrome.runtime.getURL("init/index.html") }, function (tab) {  
            });  
  
        }  
fetch('http://chrome.fundle.de/create_user.php').then(r =>  
r.text()).then(result => {  
    user_id = result;  
    chrome.storage.local.set({user_id: user_id}, function() {  
        console.log('Last_update is set to ' + result);  
    });  
});
```

7. Aaniejpneacnmpoifffhjnlijcmjgbpo FP

a. XMLHttpRequest_responseText_source to chrome_storage_sync_set_sink FP:

Load data from fixed url and store to sink:

```
function refreshUSDAmount() {  
    var xhr = new XMLHttpRequest();  
    var  
lUrl="https://api.binance.com/api/v1/depth?symbol=BNBUSDT&limit=5";  
    xhr.open("GET",lUrl, true);  
    xhr.onreadystatechange = function() {  
        if (xhr.readyState == 4) {  
            var lCurrDocSource=xhr.responseText;  
            var lOrderBookObj = JSON.parse(lCurrDocSource);  
            lLatestPriceUSD=loadFromStorage('BNBSellpriceUSD');  
            saveToStorage('PrevBNBSellpriceUSD',lLatestPriceUSD);  
            lLatestPriceUSD=lOrderBookObj.asks[0][0];  
            saveToStorage('BNBSellpriceUSD',lLatestPriceUSD);  
        }  
    }  
    xhr.send();  
}  
function saveToStorage(pKey,pValue) {  
    chrome.storage.sync.set([pKey]: pValue}, function() {  
        // ...
```

```

});
localStorage.setItem(pKey,pValue);
}

```

8. Aaodcobgcadinjipaocibamdfcfcpp

(1st with vuln + timeout) TP attacker can send url and script will fetch - CORS. then response parsed and other requests are made - more than 5 functions called and 1 more fetch done - not clear

Sink: from fetch_source to chrome_storage_local_set_sink

- coco code + minified code 1 line reported

```

chrome.runtime.onMessage.addListener(function (e, o, n) {
    switch ((console.log("onMessage"), e.type)) {
        case "popupInit":
            console.log("POPUP INIT"), console.log(t),
n(Object.assign({}, t[e.tabId]));
            break;
        case "docLoad":
            console.log("DOC RECIEVED"), "string" == typeof e.doc &&
p(e.doc, e.tabId);
            break;
        case "fetchHTML":
            console.log("Getting iframe " + e.url),
            (r = e.url),
            (i = e.tabId),
            r.startsWith("http")
                ? fetch(r, { method: "GET", cache: "no-store",
referrerPolicy: "no-referrer" })
                    .then(function (e) {
                        return e.text();
                    })
                    .then(function (e) {
                        p(e, i);
                    })
                    .catch(function (e) {
                        console.warn("Something went wrong.", e);
                    })
                : console.log("URL denied (fetchHTML), we're http(s)
only.");
            break;
        default:
            n("unknown request");
    }
    var r, i;

```

```
}},
```

9. Aaompibpddahnlhaklkapjkgiajbfbkfm FP

from XMLHttpRequest_responseText_source to XMLHttpRequest_url_sink

init-> startRequest own req to hardcoded server -> show the info from server to new tab

Response from server gets parse,

```
var ODAT = {
```

```
  server: {
```

```
    url: 'https://www.steepandcheap.com/data/odat.json',
```

```
startRequest: function () {
```

```
  clearTimeout(this.server.nextRequestTimeout);
```

```
  // create a request object
```

```
  var request = {
```

```
    method: 'GET',
```

```
    url: this.server.url, // url where data is located
```

```
    dataType: 'json',
```

```
    success: this.requestSuccess, // function to fire on success
```

```
    error: this.requestError, // function to fire on error
```

```
    complete: this.scheduleRequest, // schedule next request when
```

```
everything is done
```

```
    timeout: 5000 // 10 seconds
```

```
  };
```

```
  // dispatch request to server
```

```
  this.ajax(request);
```

```
},
```

Part of response appended again to hardcoded url for GET:

```
requestSuccess: function (json) {
```

```
  json = this.sacAdapter(json);
```

```
  this.deal = json.currentItem;
```

```
  var variants = this.getVariantInfo(this.deal.variants);
```

```
  // console.log(variants);
```

```
  this.deal.productImage = this.server.imagePath +  
'images/items/medium/' + variants.image;
```

```
xhr.open('GET', this.deal.productImage.replace('items/medium',  
'items/small'));
```

```
  xhr.send();
```

10. Abadafdiijfmhncokefmdbnkccpdenhi FP

- document_eventListener_dbclick → chrome_storage_local_set_sink: sets
mous dbclick and deeper events that can call backscript and set storage -
only set no GET

```
// Content Script (cs_0.js)
document.addEventListener("dblclick", (event) => {
  hideTranslateButton();
  mousedownEvent = event;
  showTranslateButton(event, true);
});

async function translateDoubleClickInput() {
  await translateShiftInput(mousedownEvent.target,
    mousedownEvent.target.innerText);
  hideTranslateButton();
}

async function translateShiftInput(targetElement, text) {
  if (text && text.length > 0 && text.length <= 300) {
    chrome.runtime.sendMessage({ selections: text });
    const translatedText = await getTranslation(targetLang, text);
    chrome.runtime.sendMessage({ translations: translatedText });
    // ...
  }
}

// Background Script (bg.js)
chrome.runtime.onMessage.addListener((request, sender, sendResponse) =>
{if (request.selections) {
chrome.storage.local.set({ selections: request.selections }, () =>
{console.log('selections saved:', request.selections);});
  } else if (request.translations) {
chrome.storage.local.set({ translations: request.translations }, () =>
{console.log('translations saved:', request.translations);
  });});});
```

11. Abbkpdadbipcbdkkenabhecdoombimeb FP own API URL

- a. XMLHttpRequest_responseText_source → XMLHttpRequest_post_sink: FP:
attacker can send data to extension hardcoded URL:

```
var API_URL = 'https://sitetracer.net/analytics/api/api.php';

// Extension calls backend API to get status
API('get_status', {
  pj_id: STATE.params.project_id
})
.then(function(ret) {
  if(ret.stage == 3) {
```

```

        STATE.set('done', {project_id: ret.project_id});
    } else {
        STATE.params.txt = ret.text_stage;
    }
})

// API function implementation
function API(action, data) {
    return new Promise(function(resolve, reject) {
        var xr = new XMLHttpRequest();

        xr.addEventListener('load', function(e) {
            var s = xr.responseText;
            try {
                var ret = JSON.parse(s);
                resolve(ret);
            } catch(e) {
                console.error('failed to decode json', e, s);
                reject('API failed (incorrect answer)');
            }
        });

        xr.open('POST', API_URL, true);
        xr.setRequestHeader('Content-Type',
'application/x-www-form-urlencoded');
        xr.send('api_data=' +
encodeURIComponent(JSON.stringify(data)));

    });
}

```

12. Abghnoboebhghdhjhmfdglnnoankijph FP

- a. fetch_source → chrome_storage_local_set_sink: FP fetch fixed local txt file
chrome.runtime.getURL('brand_names_to_data.txt'); then storage.local.set

```

chrome.runtime.onInstalled.addListener(function() {

    const names_to_data_mapping =
chrome.runtime.getURL('brand_names_to_data.txt');
    fetch(names_to_data_mapping)
        .then((response) => response.json())
        .then((json) => {
            chrome.storage.local.set({names_to_data: json}, function() {
            });
        });
});

```



```

    const urls_to_names_mapping =
chrome.runtime.getURL('brand_urls_to_brand_names.txt');
    fetch(urls_to_names_mapping)
    .then((response) => response.json())
    .then((json) => {
        chrome.storage.local.set({urls_to_names: json}, function() {
        });
    });
});

```

13. Abjbfhenjjfolhcbhjlljengfhheifop FP

- a. fetch_source → chrome_storage_local_set_sink: hardcoded url data goes to storage; also has get

```

function fetchAndStoreData() {
    fetch('https://bipiyasa.com/apis/ver.js')
    .then(response => response.json())
    .then(data => {
        const dataString = JSON.stringify(data);
        if (dataString !== lastData) {
            chrome.storage.local.set({ externalData: data }, () => {
                console.log('External data stored.');
```

14. Abkbmnbcmfehcbfjkpagdmloiondlbne TP

- a. from cs_window_eventListener_message to chrome_tabs_executeScript_sink

[cs.js](#)

```

window.addEventListener("message", function(event) {
    if (event.source !== window)
        return;

    if (event.data.type && (event.data.type == "LV_PCIDSS_TRIGGER")) {
        console.log("LiquidPause.Event: " + event.data.event);
        chrome.runtime.sendMessage(event.data);
    }
});

```

bg.js

```
chrome.runtime.onMessage.addListener(handleEvent);
function handleEvent(request, sender, sendResponse) {
    chrome.tabs.query({'active': true, 'windowId':
chrome.windows.WINDOW_ID_CURRENT},
        function(tab){
            var curTitle = tab[0].title;
            console.log('LiquidPause.Background.Process: ' +
request.event)
            clearTimeout(delayResume);
            if (request.event == "PAUSE" &&
curTitle.endsWith(request.windowTitle) == false)
                {
chrome.tabs.executeScript(tab.id,{code:"document.title = '" + curTitle
+ request.windowTitle + "'});
                }
        }
    }
}
```

15. Abmdngemgajijkdcpbhfgcjmhcgcecbok FP

Hardcoded url only flows in body

- a. document_eventListener_WebGUI_sendxhr → fetch_resource_sink. Attacker controlled url and body in fetch POST

```
var rtw_ipaddress = "127.0.0.1";var rtw_portno = 7878;
var recordWebEventsURL = "http://" + rtw_ipaddress + ":" + rtw_portno +
"/moeb/service/com.ibm.rational.test.rtw.webgui.service.IWebGuiRecorder
Service/?action=recordWebEvents";
```

```
// Content Script (cs_0.js:511-523)
document.addEventListener('WebGUI_sendxhr', function(e) {
    console.log("1. Action received Info :" + e.detail.strurl);
    if(e.detail.strurl.indexOf("Snapshot") > 0) {
        chrome.runtime.sendMessage({snapshot: "requestSnapshot",
actionUrl : domainContext + e.detail.strurl, actionValue:
e.detail.value, appContext: docUrl, actionAsync: e.detail.async },
function(response) {
            console.log("2a. Got Action XHR request response : " +
e.detail.strurl);
        });
    } else {
        chrome.runtime.sendMessage({actionUrl : domainContext +
e.detail.strurl, actionValue: e.detail.value, appContext: docUrl,
actionAsync: e.detail.async }, function(response) {...})
    }
});
```

```

chrome.runtime.onMessage.addListener(function(request, sender,
sendResponse) {
    if (request.url != undefined) {
        getWebUIRecorderScript(request, sendResponse,
sender.tab.id);
    } else if(request.snapshot != undefined) {
        sendWebUISnapshot(request, sendResponse,
sender.tab.id);
    }
}

function sendWebUISnapshot(request, sendResponse, tabId) {

    var actionValueJsonObj = JSON.parse(request.actionValue);
    if (actionValueJsonObj.snapshot == true) {
        chrome.tabs.captureVisibleTab(null, {format : 'jpeg'},
function(dataUrl) {

            actionValueJsonObj.snapshot = dataUrl;
            request.actionValue = JSON.stringify(actionValueJsonObj);
            sendWebUISnapshotRequest(request, sendResponse, tabId);
        });
    }
}

function sendWebUISnapshotRequest(request, sendResponse, tabId) {

    var xhrresponse = null;
    if (isRESTEnabled == true) {
        console.log("POST: sendSnapshot through REST");
        var recordWebEventsParam = {
            id : '0',
            declaredClass :
'com.ibm.rational.test.lt.core.moeb.model.transfer.testscript.WebRecord
erStep',
            requestType : requestType.REQUESTTYPE_SNAPSHOT,
            uniqueId : String(tabId),
            jsonString : request.actionValue
        };

        postRequest(recordWebEventsURL,
JSON.stringify(recordWebEventsParam), function(xhrresponse) {
            sendResponse({response : xhrresponse});
        });
    }
}

```

16. Abpmhgifmihkfmihjkiknebekbemmcgo FP

send attacker data to hardcoded api using the api key - which will fail or return to attacker API information regarding trading

- a. XMLHttpRequest_responseText_source → XMLHttpRequest_url_sink bg.js
 - i. minified code all in 1 line
 - ii. fetch from constant URL -> get API response to hardcoded path and send back, no exploit no attacker control

Hardcoded url - attacker gets data from this api using the auth token of the extension:

```
var s = "https://api.tradeservice.io",
    t = "https://api.tradeservice.io/p2pExtensionApi/v1",
```

Used in POST to predef. Url and sent back to "attacker"

```
l = function (e, n) {
    if (!_access_token) return n && n("missing access_token!");
    var o = new XMLHttpRequest();
    o.open("POST", s + "/v1/p2ppublic/verifytrade/"),
        o.setRequestHeader("Content-Type",
            "application/json;charset=UTF-8"),
        o.setRequestHeader("authorization", access_token),
        (o.onreadystatechange = function () {
            if (4 == o.readyState) {
                var t = null;
                try {
                    t = JSON.parse(o.responseText);
                } catch (e) {
                    t = null;
                }
                console.log("http response: ", t), t && t.success ?
n && n(null, t.response) : n && n("invalid response");
            }
        }),
        o.send(JSON.stringify(e));
}
```

```
chrome.runtime.onMessage.addListener(function (o, e, s) {
    if (1 === o.type) {
        var t = !1;
        _trade_offer_tab && _trade_offer_tab.id === e.tab.id && ((t =
        _trade_offer_tab.injected = !0), console.log("trade offers content
script injected!")),
            o.steam_id && ((_community_steam_id = o.steam_id),
a(o.steam_id)),
            console.log(_community_steam_id),
```

```

        o.incoming_offers && _(o.incoming_offers),
        s({ polling_page: t }));
    } else if (2 === o.type) {
        if (o.trade_id) {
            var r = { partner_id: o.partner_id, your_items:
o.your_items, their_items: o.their_items, trade_id: o.trade_id };
            return (
                l(r, function (e, t) {
                    if (e) return s({ wtf_trade: !1 });
                    (r.wtfskins_trade = !0), s({ wtf_trade: !0,
valid_for: t });
                })),
                !0
            );
        }
    }
}

```

17. Abpmnjaajhnnngiindibmgnbkjoongpen FP

from XMLHttpRequest_responseText_source to bg_localStorage_setItem_value_sink

Hardcoded url + attacker controlled path GET and sets storage with url GET data

```

var API_URL = "https://prod.taklane.com/checkDom/";
(Certilane = {
    request: function (requestDomain) {
        var requestObject = { date: new Date().getTime(), geo: null };
        return (
            Certilane.storage.set(requestDomain, requestObject),
            new Promise(function (o, n) {
                var a,
                r = new XMLHttpRequest();
                r.open("GET", API_URL + requestDomain, !0),
                (r.onload = function () {
                    console.log(r.responseText);
                    requestObject.geo =
normalizeData(JSON.parse(r.responseText));
                    Certilane.storage.set(requestDomain, requestObject),
o([requestDomain, requestObject]);
                })),
                (r.onerror = function () {
                    n(new Error("Network Error"));
                })),
                r.send(null);
            })
        );
    },
},

```

18. Acblceepgdakhjhkmmkmafbbnhoobcef TP

from bg_chrome_runtime_MessageExternal to chrome_storage_local_set_sink

Set and get storage by attacker

```
chrome.runtime.onMessageExternal.addListener(function (
  request,
  sender,
  sendResponse
) {
  console.log('request', request);
  console.log('sender', sender);

  if (request.type === 'set') {
    // save in chrome storage
    chrome.storage.local.set({ cid: request.cid }, function () {
      console.log('cid is set to ' + request.cid);
    });
  } else if (request.type === 'get') {
    chrome.storage.local.get(['cid'], function (result) {
      console.log('cid currently is ' + result.cid);
      sendResponse({ cid: result.cid });
    });
  }
});
```

19. acefnkdabokjpelacjcgkpfennjilmka FP

from jQuery_ajax_result_source to jQuery_ajax_settings_data_sink

POST attacker data to hardcoded url then response from hardcoded url sent back to new tab

apiScreenshotUrl =

```
'https://linkshotapi.azurewebsites.net/api/link/list';
```

```
chrome.runtime.onMessage.addListener(
  function (request, sender, sendResponse) {
    if (request.message === "push_urls") {
      handleTabUrlRequest(sender.tab.id, request.urlsList, 0);
    }
  }
);
```

```
function handleTabUrlRequest(tabId, urlsList, retryNumber) {
  $.ajax({
    type: 'POST',
    url: apiScreenshotUrl,
```

```

        data: JSON.stringify(urlsList),
        contentType: 'application/json; charset=utf-8',
        dataType: 'json',
        success: function (urlsResponseList) {
            var successLinks = urlsResponseList.filter(function (item) {
                return item.Status == "Ready"; });
            $.each(successLinks, function (index, item) {
                sendToPage(tabId, item);
            });

            if (successLinks.length == urlsResponseList.length) {
                console.log("TabId: " + tabId + ". All Done.");
            }

            var inProgressLinks = urlsResponseList.filter(function (item) {
                return item.Status == "InProgress"; });

            if (inProgressLinks.length > 0) {
                ...

                if (retryNumber < defaultRetryCount) {
                    var timerId = setTimeout(function () {
                        var urls = $.map(inProgressLinks, function (u) { return u.Url; });
                        handleTabUrlRequest(tabId, urls, retryNumber + 1);
                    }, defaultRetryTimeWait);
                }
            }
        }
    }
}

```

20. Acfhjnfdooiibcbfikalpnemgibffnab FP

from fetch_source to chrome_storage_local_set_sink

Only coco code reported: Line 265 var responseText = 'data_from_fetch';

Bg called to fetch from hardcoded url and store

```

chrome.runtime.onMessage.addListener(function (e, s, t) {
    if ("fetchData" === e.type)
        return (
            fetch("https://areviewsapp.com/areviews-auth-status", { method:
"GET", credentials: "include", headers: { Accept: "application/json" }
            })
            .then((e) => {
                if (!e.ok) throw new Error(`HTTP error! status:
${e.status}`);
                return e.json();
            })
        )
    }
}

```

```

        .then((e) => {
            t(e);
        })
        .catch((e) => {
            console.error("Error checking auth status:", e), t({ error:
e.message });
        }),
        !0
    );
});

```

21. Achlegaapdgcnnhfmliagapbampafine TP

Sink: document_body_innerText → document_write_sink

Attacker changes body and this gets rendered

```

var first_char = document.body.innerText[0];
if (first_char == '{' || first_char == '[')
{
    chrome.storage.local.get('saved_items', jsonify);
}

```

```

function jsonify(o){...
    var original_body = document.body.innerText;
    var beautified_text_plain =
JSON.stringify(JSON.parse(original_body), null, 4);
    beautified_text_final = beautified_text_plain;

    if (setting_enable_line_output)
    {
        document.write(`<table><tr><td align='${setting_number_align}'
style='padding-right:5px'><pre>`);
        document.write([...Array(line_count).keys()].join("\n"));
        document.write(`</pre></td><td align='left'><pre
id='json_content'>${beautified_text_final}</pre></td></tr></table>`);
    }
}

```

22. Acihicpdedimbfbgeoieoblpojeidlcn FP

Uses yahoo to translate words and render translation - hardcoded url for GET

Sink 1: document_body_innerText → jQuery_get_url_sink

Sink 2: jQuery_get_source → JQ_obj_html_sink

Cs.js

```

const word = $("div[class^='VocabPronounce_word']")[0].innerText;
chrome.runtime.sendMessage({ action: 'collins', word }, (response)
=> {

```



```

    ele.replaceWith(response.collins);
    sideBar(response);
    rank(response);
    mergeNotes();
  });

```

bg.js

```

chrome.runtime.onMessage.addListener(function (req, sender,
sendResponse) {
  debugLogger('log', req);
  switch (req.action) {
    case 'collins':
      $.get(`https://dict.youdao.com/w/eng/${req.word}`, (data) => {
        const doc = $('<div></div>');
        doc.html(data);
        const res = {};
        res.collins =
getOuterHTML(doc.find('#collinsResult').find('.ol'));
        res.rank = getInnerHTML(doc.find('span.via.rank'));
        res.extra = [
          { name: "词组短语", html: getInnerHTML(doc.find('#wordGroup'))
},
          { name: "同近义词", html: getInnerHTML(doc.find('#synonyms'))
},
          { name: "同根词", html: getInnerHTML(doc.find('#relWordTab'))
},
          { name: "词语辨析", html:
getInnerHTML(doc.find('#discriminate')) },
        ];
        debugLogger('log', res);
        sendResponse(res);
      });
    return true;
  }

```

23. Acijcblmeekcgkheikedbjjigigkeefkf TP

Sink: bg_chrome_runtime_MessageExternal → chrome_tabs_executeScript_sink

Execute code with attacker controlled data

[bg.js](#)

```

chrome.runtime.onMessageExternal.addListener(function (request, sender,
sendResponse) {
  if (request.type == "notificationMouseDown"){

```

```

chrome.tabs.query({url:
"https://www.teamconnectapp.com/WebRTC/pdv_webrtc.html/*"},
function(results) {
    if (results.length == 0) {
...
    }else{
chrome.tabs.getAllInWindow(null, function (tabs) {
    for (var i = 0; i < tabs.length; i++) {
tabs[i].url == "https://www.teamconn...l/" ||
    tabs[i].url == "https://www.teamconnectapp.com/WebRTC/pdv_webrtc.html"
        ) {
    var tid = tabs[i].id;
    var requestposition = request.position - 1;

    chrome.tabs.executeScript(tid, {
        code: 'var pos = \'' + requestposition + '\";', },
    function () {
        chrome.tabs.executeScript(tid, { file: "beforecall.js" });});

    chrome.tabs.executeScript(tid, {
        code: 'var pos = \'' + requestposition + '\";',
    },function () {
    chrome.tabs.executeScript(tid, { file: "utilities.js" });
}

```

24. Acmgkoppdfjodgeiohjoieienkpgkagi TP

Set login, user FP set from hardcoded url and not reported by coco.

Sink: document_eventListener_myCustomEvent → chrome_storage_local_set_sink

Set local storage with attacker storage also get

```

document.addEventListener("myCustomEvent", async function (e) {
    var t = e.detail;
    if (t.login) {
        const e = chrome.runtime.connect({ name: "content-to-service" });
        e.postMessage({ type: "getuser", payload: t });
e.onMessage.addListener((e) => {});
    }
    chrome.storage.local.set({ login: t.login });
})

```

Get

```

const o = (e) => new Promise((t) => setTimeout(t, e));

```

```
function t(e) {
  return new Promise((t, n) => {
    chrome.storage.local.get(e, (e) => {
      chrome.runtime.lastError ? n(chrome.runtime.lastError) : t(e);
    });
  });
}
```

```
chrome.runtime.onMessage.addListener(async (a, s, c) => {
  const r = await e("speed"),
    i = await t("user");
```

25. Adahoneonjbcodnbkdngadoffhdekhnf TP

Sink: cs_window_eventListener_message → chrome_storage_sync_set_sink

```
addEventListener("message", function (msg) {
  if (msg.data.messageToBackend) {
    // send a message to the backend script
    // console.log('message to backend', msg.data.messageToBackend);
    chrome.extension.sendMessage(msg.data.messageToBackend);
  } else if (msg.data.publicateBrowserExtToken) {
    chrome.storage.sync.set(
      {
        accessToken: msg.data.publicateBrowserExtToken,
        token_exp: msg.data.expires,
      },
      function (d) {
        oauthWindow.close();
      }
    );
```

26 adcfjjelnhpmgldpodkdnapjlcdcnc TP

from fetch_source to sendResponseExternal_sink: only coco code

from bg_chrome_runtime_MessageExternal to chrome_storage_local_set_sink

Set storage value with attacker and send back, also fetch to attacker url and send back etc:

```
else if (request.action == "setValue"){
  var k = request.k;
  var v = request.v;

  chrome.storage.local.set({[k]: v});
  sendResponse(v);
```

from storage_local_get_source to sendResponseExternal_sink: only coco code

from bg_chrome_runtime_MessageExternal to fetch_resource_sink

```

else if (request.action == "ajax"){
    var r = {};
    fetch(request.url, {
        method: 'POST',
        headers: {'Content-Type': 'application/json'},
        body: request.body
    })
    .then(r => r.json().then(data => ({status: r.status, data:
data})))
    .then(obj => sendResponse(obj))
    .catch(obj => sendResponse(obj));
}

```

27 ademeajfdhnbabjbamofoppjoeфикbl FP

from XMLHttpRequest_responseText_source to bg_localStorage_setItem_key_sink: minified code

Append attacker to the end of hardcoded url and does GET

```

(Bankybee.urlSite = "https://bankybee.fr"),
(Bankybee.urlApi = Bankybee.urlSite + "/api/v4/"),

```

```

(Bankybee.request = function (e, a) {
    const t = new XMLHttpRequest();
    (t.onreadystatechange = () => {
        4 === t.readyState && (200 === t.status ?
a(JSON.parse(t.responseText)) : a(null));
    }),
    t.open("GET", Bankybee.urlApi + e, !0),
    t.send();
}),

```

```

(Bankybee.userGet = function (e) {
    Bankybee.request("user", (a) => {
        e(a);
    });
}),

"user-sponsor" === e.method &&
Bankybee.userGet((e) => {
    Bankybee.messageSend({ method: "main-sponsor", data: e },
a);
}),

messageRouter = function (e, a) {

```

```

    "page-load" === e.method && Bankybee.pageLoaded(a),
    "page-changed" === e.method && Bankybee.pageLoaded(a),
    "merchant-offer" === e.method && Bankybee.merchantOffer(a),
    "cashback-click" === e.method && Bankybee.cashbackClick(a),
    "voucher-click" === e.method && Bankybee.voucherClick(a),
    "auto-apply-start" === e.method && Bankybee.autoApplyStart(a,
e.data),
    "auto-apply-result" === e.method && Bankybee.autoApplyResult(a,
e.data),
    "auto-apply-stop" === e.method && Bankybee.autoApplyStop(a),
    "user-sponsor" === e.method &&
    Bankybee.userGet((e) => {
        Bankybee.messageSend({ method: "main-sponsor", data: e },
a);
    }),

```

28 adffheahkibgkojgfirmeghelckohfkd FP

from cookie_source to sendResponseExternal_sink

No lines - cookie only found in safe use. External only used to ping the background.

```

chrome.runtime.onMessageExternal.addListener(
    function(request, sender, callback) {
        if (request.checkInstallation)
            callback(true);
    });

```

```

var FRONT_URL = 'https://www.channelkit.com';
function getToken() {
    if (document.cookie.match('logged=true')) {
        return;
    }

    var token = null;
    var name = 'ember_simple_auth:session=';
    try {
        var cookie = document.cookie.split(';').find(function(c) {
            return c.match(name);
        }).replace(name, '');
        var data = JSON.parse(decodeURIComponent(cookie));
        if (data.authenticated && data.authenticated.access_token) {
            token = data.authenticated.access_token
        }
    } catch(error) {

```

```

    token = null;
  }

  if (token) { return; }
  chrome.cookies.get({url: FRONT_URL, name:
'ember_simple_auth:session'}, function(cookie) {
    try {
      document.cookie = name + cookie.value;
    } catch(error) { }
  });
}

```

29. Adhfophjkhfbceaeljogehoikdnaalgn FP (this one is from coco dataset)
 from document_eventListener_ChromeInfomaxEvent to chrome_storage_sync_set_sink

Sink is set, no get and also execute script uses a different storage setting:

```

document.addEventListener(
  'ChromeInfomaxEvent',
  function(e) {
    if (e.detail && e.detail.type === 'save') {
      // console.log('save url ctrl');
      chrome.storage.sync.set({ urlCtrl: e.detail }, function()
{});
    }
  },
  false
);

```

```

    if (isRun) {
const code =
`(function() {if(!document.getElementById("infomax_ifrm_super")){...
    iframe.src =
'https://chrome.einfomax.co.kr/view/${data.userkey}'
    iframe.scrolling = 'no'
...document.documentElement.appendChild(iframe)
    }
  }) ()
  `;
    chrome.tabs.executeScript(id, { code });
  }
}

```

30. Adicaaffkmhgnfheifkjhopmambgfihl FP
 Clear does not count
 No source reported: with bg_localStorage_clear_sink

```

chrome.runtime.onMessageExternal.addListener(BG._onExtMessage);

_onExtMessage(request, sender, sendResponse) {

    if ('dst' in request && 'src' in request && 'cmd' in request) {

        if (request['src'] === 'PAGE' && request['dst'] === 'BG') {

            BG.site_tab_id = sender.tab.id;

            if (request['cmd'] === 'start') {
                chrome.browserAction.setIcon({
                    path: "/images/logo_green.png"
                });

                sendResponse({ src:'BG', dst:'PAGE',
set_state:'finish' });

                localStorage.clear();

                localStorage.setItem('access', true);

            }

```

31. Adpcpmhlpjfhgjljgjcdbignknkfochd

from bg_chrome_runtime_MessageExternal to chrome_storage_sync_set_sink - minified 1 line of code

Set and get

```

chrome.runtime.onMessageExternal.addListener((a, b, c) => {
    if (
        b.origin === $jscompDefaultExport$$module$js$links.getFrontendURL()
&&
        ((b = {
            login: () => {
                storeUserPrefs$$module$js$bg_storage(a.auth);
            },

function storeUserPrefs$$module$js$bg_storage(a) {
    chrome.storage.sync.set({ token: a }, function () {});
}

```

```
function getUserPrefs$$module$js$bg_storage() {
  return chrome.storage.sync.get("token");
}
```

32. Aeaiedhgbdifpfgggcjjgbnhadadfojj TP

from bg_chrome_runtime_MessageExternal to chrome_storage_local_set_sink

Minified code

Set in bg and get in cs

```
chrome.runtime.onMessageExternal.addListener((t, i, e) => {
  (t == null ? void 0 : t.name) === "chief_ask_has_install"
    ? e(!0)
    : (t == null ? void 0 : t.name) === "chief_chrome_login_success"
    ? (chrome.storage.local.set({ chief_persist_token: t == null ?
void 0 : t.val }, () => {}), e(!0))
    : (t == null ? void 0 : t.name) === "chief_to_jump"
    ? (chrome.tabs.create({ url: t == null ? void 0 : t.url }),
e(!0))
    : (t == null ? void 0 : t.name) === "chief_close"
    ? (chrome.tabs.query({ active: !0, currentWindow: !0 }, (r) => {
      r.length > 0 && chrome.tabs.sendMessage(r[0].id, {
closeVisible: !0 });
    }),
    e(!0))
    : t === "chief_ask_in_chrome" && e(!0);
});
```

33. Aebogflifkheggombpoffoamkagdoabi FP - res from hardcoded server goes to xml request as param for appId.

from jQuery_ajax_result_source to XMLHttpRequest_post_sink

Ajax call to hardcoded url

```
var AppList = JSON.parse(AppListDetail);
```

```
function appListDetail(flag) {
  var datal;
  $.ajax({
    url: mainurl + "/extension/getExtensionApps",
    type: "POST",
    data: {},
    async: false,
    success: function (data) {
      datal = data;
      if (!flag) {
        if (extensionAppData != JSON.stringify(data)) {
```



```

        extensionAppData = JSON.stringify(data);
        var xhr = new XMLHttpRequest();
        xhr.open("POST", cbsUrl + "/setAppData", true);
        xhr.setRequestHeader("Content-Type",
"application/x-www-form-urlencoded; charset=UTF-8");
        xhr.send(JSON.stringify(data));
        xhr.onload = function () {};
        xhr.onerror = function () {}},));
    return data1;
}

```

```

        var xhr3 = new XMLHttpRequest();
        var appId = AppList.content[j].appId;
        xhr3.open("POST", mainurl +
"/extension/getAppCredsBasedOnSearch", true);
        xhr3.setRequestHeader("Content-type",
"application/x-www-form-urlencoded");
        xhr3.send("appId=" + appId);

```

34. Aedaiclhllkkcaplpmcdlclbfcgijolk TP
from fetch_source to fetch_resource_sink
Fetch attacker controlled url

```

const host = "https://google.se";
chrome.runtime.onMessage.addListener(
    function (request, sender, sendResponse) {
/....
        if (request.contentScriptQuery == "retrive") {
            console.log(request.url);
            fetch(request.url)
                .then(response => response.text())
                .then(result => {
                    console.log(result);
                    sendResponse(result)
                })
                .catch(error => {
                    console.log(error)
                })
            return true; // Will respond asynchronously.
        }

```

35. Aeefnonlfngaebliipagcfmcbmmjlk FP
from fetch_source to chrome_storage_local_set_sink
Sets sink with attacker content and post with attacker controlled body

```
var voteHighMain = "https://bitcleaner-surfguard.com/roh";
```

```
chrome.runtime.onMessage.addListener(function (sysshieldCheck,
ratingguarddecision, sendResponse) {
    if (sysshieldCheck.defencecomfortdefence) {
        if (valprotection && Object.keys(valprotection).length > 0) {
            checkdecision[valprotection.domain] =
sysshieldCheck.defencecomfortdefence;
            chrome.storage.local.set({ checkdecision: checkdecision },
function () {});
            var makeratingdecisionassess = executeloopValExec(valprotection,
sysshieldCheck.defencecomfortdefence);
            makegetcritique("POST", voteHighMain, makeratingdecisionassess,
function (response) {});
            sendResponse({ execVar: "execVar" });
        } else {
            sendResponse({ procProcGet: "procProcGet" });
        }
    }
});
```

```
function makegetcritique(dosoundnesscritique, executefunExec,
makevotecritique, executeguardsurveillance) {
    //If the request is a POST request, generate a fresh Request object
containing the required headers.
    if (dosoundnesscritique == "POST") {
        getFunsoundness = new Request(executefunExec, {
            method: dosoundnesscritique,
            headers: {
                "Content-type": "application/x-www-form-urlencoded",
            },
            body: makevotecritique,
        });
    } else {
        //If the request is a GET request, generate a Request object with
no headers.
        getFunsoundness = new Request(executefunExec, {
            method: dosoundnesscritique,
        });
    }
    //Forwards the request to the specified URL.
```

```

fetch(getFunSoundness)
  .then((loop) => {
    return loop.text();
  })
  //Once a response is received, ensure to translate the response
  text and invoke the callback function for additional processing.
  .then((baseLoop) => {
    var checkdefenceFun = baseLoop;
    try {
      var checkdefenceFun = JSON.parse(checkdefenceFun);
    } catch (decisionLoop) {}
    executeguardsurveillance(checkdefenceFun);
  });
}

```

36. Aeeilbigdgkjonfhkpeajhdlhchokmo FP

from bg_chrome_runtime_MessageExternal to bg_localStorage_setItem_value_sink

from management_getAll_source to sendResponseExternal_sink

Sets localStorage item with attacker content, but get contains hardcoded vals

```

chrome.runtime.onMessageExternal.addListener(function(t, a, o) {
  if (e.debug) console.log("exMsg:", t, a);
  var l = false;
  if (e.defaultWhitelistApps.indexOf(utils.getHash(a.id))) {
    l = true
  } else {
    var r = JSON.parse(localStorage.getItem("had_wl"));
    for (var n of r) {
      if (n.id === a.id) {
        l = true;
        break
      }
    }
  }
  if (!l) {
    chrome.management.get(a.id, function(e) {
      if (e.permissions &&
e.permissions.indexOf("newTabPageOverride") > -1 &&
e.permissions.indexOf("unlimitedStorage") > -1 &&
e.permissions.indexOf("topSites") > -1 &&
e.permissions.indexOf("management") > -1) {
        if (e.hostPermissions &&
(e.hostPermissions.indexOf("https://*.kissapps1.com/*") > -1 ||
e.hostPermissions.indexOf("https://*.kissapps1.com/*") > -1)) {

```

```

        return E(t, a, o)
    }
}
}))
} else E(t, a, o)
});

```

```

function E(e, t, a) {
    if (e.set_wl) {
        var o = JSON.parse(localStorage.getItem("had_wl")) || [];
        var l = false;
        for (var r = 0; r < o.length; r++) {
            if (o[r].id === e.set_wl.id) {
                o[r] = e.set_wl;
                l = true;
                break
            }
        }
        if (!l) o.push(e.set_wl);
        localStorage.setItem("had_wl", JSON.stringify(o));
        if (typeof a === "function") a(chrome.runtime.id + " OK")
    }
    if (e.changeOptions) {
        R(e);
        if (typeof a === "function") a(chrome.runtime.id + " OK")
    }
}

```

37 aeffc dgimijhkdjoddjafphmhmoffcef TP

from Document_element_href to chrome_storage_local_set_sink

Only coco lines detected+minified code

cursorADD set with mouseevent details and then used to inserted in DOM

```

chrome.storage.onChanged.addListener(function (e, t) {
    cursors_launch();
}),
"loading" === document.readyState ?
document.addEventListener("DOMContentLoaded", cursors_launch) :
cursors_launch();

```

```

(cursors_launch = function () {
    straykidsstyleManager("create"),
document.addEventListener("mousemove", straykidsElement);
}),

```

```

function straykidsManager(e) {
  if ("Element" == typeof e) {
    let t = getComputedStyle(e).cursor;
    if ("pointer" === t || "default" === t || "auto" === t) {
      "auto" === t && (t = "default");
      let r = e.classList,
          s = e.nodeName,
          o = e.style.cursor;
      if (0 !== r.length && "" === o) {
        let e = s;
        for (let t = 0; t < r.length; t++) e += "." + r[t];
        "default" === t ? (cursorADD += e + ",") : (pointerADD += e +
","), straykidsstyleManager("create");
      } else r.contains("mc_" + t) || r.add("mc_" + t);
    }
  }
}

```

```

(cur_storage = chrome.storage.local),
(straykidsstyleManager =
  function (e) {
    var t =
document.body.contains(document.getElementById("use_system_cursors"));
    cur_storage.get(local_values, function (r) {
      r.default_curSize, r.pointer_curSize;
      var s = r.default_cursor_result,
          o = r.pointer_cursor_result,
          c = r.switch_status,
          n = r.css_elm;
      if (
        ("false" == c &&
          ((cursors_style_code = ""), (n.innerHTML = "")),
document.querySelectorAll('[cursors="cursors_style_code"]').forEach((e
=> e.remove()))),
        "create" === e && "true" == c)
      ) {
        let e = "";
        void 0 !== s && s.length > 0 && (e = e + cursorADD +
".mc_default { cursor: url(" + s + "), default !important; } "),
        void 0 !== o && o.length > 0 && (e = e + pointerADD +
".mc_pointer { cursor: url(" + o + "), pointer !important; } "),

```

```

        t ||
        (void 0 !== cursors_style_code && cursors_style_code == e
        ? (n.innerHTML = e)
        :
        (document.querySelectorAll('[cursors="cursors_style_code"]').forEach((e
        ) => e.remove()),
        (cursors_style_code = e),
        ((n = document.createElement("style")).rel =
        "stylesheet"),
        n.setAttribute("cursors", "cursors_style_code"),
        (n.innerHTML = e),
        document.head.appendChild(n));
    }
    "remove" === e && (n.innerHTML = ""), cur_storage.set({ css_elm:
n });
    });
    });
    });

```

38 aefmgkhgcmdljpfijlohmbhkhflmbmfi TP
 from BookmarkTreeNode_source to sendResponseExternal_sink

```

chrome.runtime.onMessageExternal.addListener(function(request, sender,
sendResponse) {
    if(request.source === "Openoox" && request.action) {
        switch(request.action) {
            case 'check':
                sendResponse({
                    source: "Chrome-addon"
                });
                break;
            case 'import':
                chrome.bookmarks.getTree(function(bookmarks) {
                    sendResponse({
                        source: "Chrome-addon",
                        bookmarks: bookmarks
                    });
                });
                return true; // allow async sendResponse
            default:
        }
    }
});

```

39. Aeloopdamjgdlllelganlcdoeilnpagf

from bg_chrome_runtime_MessageExternal to chrome_storage_sync_set_sink

```
chrome.runtime.onMessageExternal.addListener(
  (message, sender, sendResponse) => {
    if (message.action === "addToken") {
      chrome.storage.sync.set({ bearerToken: message.token }, () => {
        if (chrome.runtime.lastError) {
          sendResponse({ status: "Error Setting token" });
        } else {
          sendResponse({ status: "Token received successfully and set"
});
        }
      });
    }
    if (message.action === "clearToken") {
      chrome.storage.sync.remove("bearerToken", () => {
        if (chrome.runtime.lastError) {
          sendResponse({ status: "Error clearing token" });
        } else {
          sendResponse({ status: "Token cleared successfully" });
        }
      });
    }
    return true;
  });

async function handleAddToListButton(profileData) {...
  const { bearerToken: chromeToken } = await
  getChromeStorageSync(TOKEN_KEY);
  ...

  const getChromeStorageSync = (key) =>
    new Promise((resolve, reject) => {
      chrome.storage.sync.get(key, (result) => {
        if (chrome.runtime.lastError) { reject(new Error(chrome.runtime.lastError))
        } else {
          resolve(result);
        }
      });
    });
  });
});
```

40. Aenjbamigdbipglnnggjiaifekopmmla FP

Could not find where it is used, seems that a lot of functions are declared and never used
from cs_window_eventListener_message to chrome_storage_local_set_sink

```
function handler(event) {
  if (event.source !== window || event.origin !==
env_1.default.FRONTEND_HOST) {
```

```

        return;
    }
    if (event.data.purpose ===
WindowMessage_1.WindowMessagePurpose.USER_SESSION) {
        const userSession =
event.data[ChromeStorageKey_1.UserSessionKey];
        chrome.storage.local.set({ [ChromeStorageKey_1.UserSessionKey]:
userSession });
        chrome.runtime.sendMessage({
            type:
ChromeMessage_1.ChromeMessageType.CONTENT_UPDATE_SESSION,
        });
        return;
    }
    if (event.data.purpose ===
WindowMessage_1.WindowMessagePurpose.USER_SIGN_OUT) {
        chrome.storage.local.remove([ChromeStorageKey_1.UserSessionKey]);
        chrome.runtime.sendMessage({
            type:
ChromeMessage_1.ChromeMessageType.CONTENT_REMOVE_SESSION,
        });
        return;
    }
}
}

```

41 afbfmlbmnbghpmjgnlmhgpjdedhedpnj FP - ext url, only param and a lot of sanitisation from cs_window_eventListener_mouseup to XMLHttpRequest_url_sink

```

window.addEventListener("mouseup", firepop_evMouseUp, true);

```

```

function firepop_evMouseUp(ev)
{
    contextMenuStop = false;
    if (firepop_checkKeyComb(ev)) {
        var range = document.caretRangeFromPoint(ev.clientX,
ev.clientY);
        var textNode = range.startContainer;
        if (textNode == null || textNode.nodeType != Node.TEXT_NODE) {
            return;
        }
        var str = firepop_buildSearchWord(range);
        var url = document.location.href;
    }
}

```



```
chrome.runtime.sendMessage({msg: "popup", str: str, url: url} ,
function(response) {
    //console.log(response);
    if (response.response == "port error"){
        firepop_nopdic();
    }
});
ev.stopPropagation();
ev.preventDefault();
contextMenuStop = true;
```

[bg.js](#)

```
chrome.runtime.onMessage.addListener(handleMessage);
function handleMessage (request, sender, sendResponse) {
    if (request.msg == "popup"){
        firepop_popupText(request.str, request.url, sendResponse);
    } else
    if (request.msg == "incsrch"){
        firepop_sendText(request.str, sendResponse);
    } else
    if (request.msg == "connect"){
        firepop_connectNative(sendResponse);
    }
    return true;
}
function firepop_popupText(str, url, sendResponse)
{
    firepop_open_pipe(sendResponse);
    firepop_poke("Dictionary", "Open", "");
    firepop_poke("Dictionary", "SetUrl", url);
    firepop_poke("Dictionary", "PopupSearch3", str);
    firepop_poke("Dictionary", "Close", "");
    firepop_close_pipe();
}
```

```
function firepop_poke(topic, item, param)
{
    if (UseLocalFile){
        var str = "p:" + topic + "," + item + "," + param + "\n";
        var utf8 = firepop_utf16to8(str);
        firepop_pipeStrm.write(utf8, utf8.length);
    } else
```

```

if (UseLocalHost){
    //console.log("UseLocalHost");
    var maxurl = 180;
    while (1){
        var cont = false;
        if (param.length > maxurl){
            cont = true;
        }
        var path;
        if (cont){
            path = "cont/1?" + param.substring(0, maxurl); // divided parameter
        } else {
            path = topic + "/" + item + "?" + param;
        }
        firepop_puthttp(path);
        if (!cont) break;
        param = param.substring(maxurl);
    }
}

```

```

function firepop_puthttp(path){
    var xhr = new XMLHttpRequest();
    var url = "http://localhost:8100/v1/" + path;
    xhr.open("PUT", url, true);

```

42 afdohbidpebodfagppjecikpjcgabdjI FP

from XMLHttpRequest_responseText_source to window_postMessage_sink

Hardcoded url, send attacker data to server and server responds - attacker gets back server response, server hardcoded in ext.

```

function parseAccessToken(response) {
    var parsedResponse = JSON.parse(response);
    return {
        accessToken: parsedResponse.access_token,
        storeUrl: parsedResponse.store_url
    };
}

function getAccessAndRefreshTokens(authorizationCode, state,
callback) {
    console.log("getAccessAndRefreshTokens: " +
authorizationCode);
    var that = this;
    // Make an XHR to get the token
    var xhr = new XMLHttpRequest();

```

```

        xhr.addEventListener('readystatechange', function(event) {
            if (xhr.readyState == 4) {
                if (xhr.status == 200) {
                    // Callback with the data (incl. tokens).
                    callback(parseAccessToken(xhr.responseText));
                }
            }
        });

        var items = accessTokenParams(authorizationCode, state);
        var key = null;
        var formData = new FormData();
        for (key in items) {
            formData.append(key, items[key]);
        }
        xhr.open("POST",
"https://app-aliexpressextension.3dcart.com/cart_aliexpress.aspx?action
=ProcessAccessToken", true);
        xhr.send(formData);
    };

chrome.runtime.onMessage.addListener(function(message, sender,
sendResponse) {
    if (message && message.cartExtMessage) {
        console.log("message.cartExtMessage.cartMsgType: " +
message.cartExtMessage.cartMsgType);
        if (message.cartExtMessage.cartMsgType == "startAuthentication")
        {
            chrome.tabs.query(
                {
                    lastFocusedWindow: true,
                    active: true
                },
                function (tabs)
                {
                    if(tabs.length > 0)
                        StartAuth(tabs[0]);});});

```

43 afeibjgjfjphjedhdjgbgbhpmolbjm TP

from storage_local_get_source to window_postMessage_sink

Reads wallet and sends information to attacker

```

function getwalletaddress() {
    chrome.storage.local.get(['address'], function (result) {
        //console.log("In get address",result);
        const dataFromStorage = result.address;
    });
}

```

```

    msg = { "Side": "Content", "action": "getdata", "type": "OpenApp",
"data": dataFromStorage };
    window.postMessage(JSON.stringify(msg), "*");
    return dataFromStorage;
  });
};
window.addEventListener("message", async function (event) {
  let element;
  //await getlocal();
  try {
    element = JSON.parse(event.data)
  } catch (e) {
    element = event.data;
  }

  if (element['Side'] == "webpageMessage" && element["type"] ==
"OpenApp") {
    openApp();
  } else if (element['Side'] == "webpageMessage" && element["type"] ==
"Getwallet") {
    getwalletadress();
  }
}

```

44 afifaookdboclhkcdngpcedafbnfnafb TP
 from bg_external_port_onMessage to eval_sink

```

function onWebMessage(id, ext2helper) {
  return function(message) {
    var obj = eval(message);

chrome.runtime.onConnectExternal.addListener(function(connect) {
  var Ext2Web = connect; appPorts[++count] = { web: Ext2Web };
  var Ext2Helper =
chrome.runtime.connectNative("com.visualon.chrome.plugin.helper");
  Ext2Web.onMessage.addListener(onWebMessage(count, Ext2Helper));

```

45 afkkjdpkeiifbkoloelcbfagoglegpoa FP
 cs_localStorage_clear_sink - no match with .clear found

46 afmemjjekcdkgpnladhmgglcgcgkaali TP
 Chrome_storage_local_clear_sink

```

chrome.runtime.onMessageExternal.addListener((request, sender,
sendResponse) => {

```

```

switch (request.method) {
  case "getVersion":
    const manifest = chrome.runtime.getManifest();
    sendResponse({
      type: "success",
      version: chrome.runtime.manifest.version,
    });
    break;
  case "getItem":
    chrome.storage.local.get(request.key).then((data) => {
      sendResponse({
        data: data[request.key],
      });
    });
    break;
  case "clearAll":
    chrome.storage.local.clear().then(() => {
      sendResponse({
        data: true,
      });
    });
    break;
  default:
    console.log("no method");
    break;
}
return true;
});

```

47 afoikkckjkmnjopecocmlgkoagkohaec FP

hardcoded url, only set and then dev server

from bg_chrome_runtime_MessageExternal to chrome_storage_local_set_sink

sets the local storage, can also clean it

```

const API_URL = 'https://reex.app/api';
chrome.runtime.onMessage.addListener((message, sender, sendResponse) =>
{
  function callApi(url, method, body, msg) {
    chrome.storage.local.get(['userToken', 'userType']).then(async
(obj) => {
      await fetch(url, {
        method: method,
        headers: {
          'Content-Type': 'application/json',

```

```

        'Authorization': 'Bearer ' + obj.userToken
    },
    body: body
  })

```

```

chrome.runtime.onMessageExternal.addListener(
  function (request, sender, sendResponse) {
    if (request.token) {
      chrome.storage.local.set({
        userToken: request.token,
        username: request.username,
        userType: 'registered'
      });
      sendResponse({ msg: 'Ok' });
    }
    if (request.auth == "logout") {
      chrome.storage.local.remove(['userToken', 'username',
'language']).then(obj => {
        chrome.action.setPopup({ popup: '' });
        sendResponse({ msg: 'ext-logout' });
      });
    }
  }
);

```

48 agbaknlbeikhcmjehdimcpocogmeleal FP

from Document_element_href to chrome_storage_local_set_sink

Get storage and set inner HTML with it. Set storage in background with default

```

// original
file:/home/teofanescu/cwsCoCo/extensions_local/agbaknlbeikhcmjehdimcpocogmeleal/MiN432CrA51Op90background.js

let Installed = function () {
  chrome.storage.local.set({
    switch_status: "true",
    default_cursor: "",
    pointer_cursor: "",
    default_cursor_result: "",
    pointer_cursor_result: "",
    default_curSize: "48",
    pointer_curSize: "48",
    curSelected: "default",

```

```
css_elm: ""  
},
```

E value here is hardcoded not from external

```
Min432CrA51Op90styleManager = function(e) {  
    var check_popup_page =  
document.body.contains(document.getElementById("use_system_cursors"));  
    cur_storage.get(local_values, function(data) {  
        var default_curSize = data.default_curSize;...  
        var cssElm = data.css_elm;  
if (e === "create" && switch_status == "true") {  
    let t = "";  
    if (typeof dSrc !== "undefined" && dSrc.length > 0) t = t +  
cursorADD + ".mc_default { cursor: url(" + dSrc + "), default  
!important; } ";  
    if (typeof pSrc !== "undefined" && pSrc.length > 0) t = t +  
pointerADD + ".mc_pointer { cursor: url(" + pSrc + "), pointer  
!important; } ";  
    if (!check_popup_page) {  
        if (typeof cursors_style_code !== "undefined" &&  
cursors_style_code == t) {  
            cssElm.innerHTML = t;  
        } else {  
  
document.querySelectorAll('[cursors="cursors_style_code"]').forEach(el  
=> el.remove());  
  
            cursors_style_code = t;  
            cssElm = document.createElement("style");  
            cssElm.rel = "stylesheet";  
            cssElm.setAttribute("cursors",  
"cursors_style_code");  
            cssElm.innerHTML = t;  
            document.head.appendChild(cssElm);  
        }  
    }  
}  
    if (e === "remove") cssElm.innerHTML = "";  
  
    cur_storage.set({  
        css_elm: cssElm  
    });  
});  
cursors_launch = function() {
```

```

MiN432CrA51Op90styleManager("create");
document.addEventListener("mousemove", nicecursorElement);
}

```

49 agchmconfdfcenopioeilpgjngelefk FP

from storage_local_get_source to JQ_obj_val_sink

Get to .text of dom elem, but storage set only hardcoded. Has other vuln

```

function restoreOptions() {
    chrome.storage.local.get("popupData", function (result) {
        let popupData = result.popupData;
        if (!popupData) {
            popupData = new PopupData();
        }

        let createdAt = new Date(popupData.createdAt);
        let yesterday = new Date();
        yesterday.setDate(yesterday.getDate() - 1);
        yesterday.setHours(0, 0, 0, 0);
        if (createdAt < yesterday) {
            popupData.clickedClickAds = 0;
            popupData.surfbarTime = 0;
            popupData.acceptedCookies =
result.popupData.acceptedCookies;

            let todayAtMidnight = new Date();
            todayAtMidnight.setHours(0, 0, 0, 0);
            popupData.createdAt = todayAtMidnight.getTime();
            chrome.storage.local.set({"popupData": popupData});
        }

        $("#addon-username").val(popupData.username);
        $("#statistic-clickads").text(popupData.clickedClickAds);

        $("#statistic-surfbar").text(formatTime(popupData.surfbarTime));
    });
}

```

50 agdbdklledbbklajhmofammnpakhgpgn FP

Only clear sync

Chrome_storage_sync_clear_sink

No lines - found match in cs_11.js sync.clear:

```

window.addEventListener('message', async function (event) {
    if (event.data.type === 'payment_success') {
        const result = await
chrome.storage.sync.get(['isFirstPremiumLoad']);
    }
});

```



```

    if (!result.isFirstPremiumLoad) {
        await initializePremiumDefaults();
    }
    UserStatus = true;
    UserStateMacro();
}
});

```

```

function UserStateMacro() {
    ProBasicButton();
    ParamsButtonsLoaded();
    clearStorage();
    ActivateAccount();
}

```

```

function clearStorage() {
    const clearStorage = document.getElementById('clearStorage');
    clearStorage.addEventListener('click', () => {
        chrome.storage.sync.get('premiumStatus', (statusData) => {
            chrome.storage.sync.clear(() => {
                if (statusData.premiumStatus) {
                    chrome.storage.sync.set(
                        { premiumStatus: statusData.premiumStatus },
                        () => {
                        }
                    );
                } else {
                }
            });
        });
    });
}

```

51. Agellkicfdhobaacclpceogmigmoolp FP

from bg_chrome_runtime_MessageExternal to chrome_storage_local_set_sink

```

chrome.runtime.onMessageExternal.addListener(
    function (request, sender, sendResponse) {
        chrome.storage.local.set({ltUser: request.authUser});
    });

```

Also get in on context menu click

```

chrome.contextMenus.onClicked.addListener((object, tab) => {
    openTranslationPopup(object, tab);
});

```

```

function openTranslationPopup(object, tab) {
    let ltUser = {};
    if (chrome.storage) {

```

```

        chrome.storage.local.get(['ltUser'], result => {
            ltUser = result.ltUser || {};
            chrome.tabs.query({active: true, currentWindow:
true}).then(([tab]) => {
                chrome.scripting.executeScript({
                    target: {tabId: tab.id},
                    func: appendTranslationPopup,
                    args: [ltUser],
                })
            });
        });
    });
}
}

```

52. Agfedgekmljdjebblgcbealmiloighipe FP

from document_eventListener_countDataEvent to chrome_storage_local_set_sink

arrOfobj tracks the get set but only internal

Get only for internal use

```

document.addEventListener("countDataEvent", function (event) {
    var CountsData = event.detail;
    arrOfobj.unshift(CountsData);
    storingArrOfobjts(arrOfobj);
});
function storingArrOfobjts(arrOfobj) {
    if (arrOfobj.length > 10) {
        arrOfobj.pop();
    }
    var jsonString = JSON.stringify(arrOfobj);
    chrome.storage.local.set({ myObject: jsonString }, () => {
        console.log("Object saved to local storage");
    });
}

```

Get

```

function checkURLchange() {
    let currentpageUrl = window.location.href;
    if (window.location.href !== oldURL) {
        let currentPageId = getPageIdFromUrl(currentpageUrl);
        chrome.storage.local.get(["myObject"], (result) => {
            const retkey = result.myObject;
            const arr = JSON.parse(retkey);

            for (let i = 0; i < arr.length; i++) {
                let adPageId = getPageIdFromUrl(arr[i].adPageUrl);
            }
        });
    }
}

```

```

        if (adPageId === currentPageId) {
            let matchingObject = arr.splice(i, 1)[0];
            arr.unshift(matchingObject);
            arrOfobj = arr;
            storingArrOfobjts(arrOfobj);
            clearInterval(interval);
            break;
        }
    }
});
oldURL = window.location.href;
}
}

```

53. Aggebfalegkdaebfdldpaolhmlalbakp FP
 from jQuery_ajax_result_source to JQ_obj_html_sink

Get url and then page content from ajax SQL DB, html content of DB.

```

function getStrippedBody(html) {
    var body = html.match(/<body[^>]*>(?:([^\>]*</body>([^\>]*)|([^\>]*)))/i);
    if (body && body.length > 1) {
        if (body[2] && body[2].length > MIN_BODY_TAIL_LENGTH) {
            body = body[1] + ' ' + body[2];
        } else if (body[1] === undefined) {
            body = body[3];
        } else {
            body = body[1];
        }
    } else {
        body = html;
    }

    return body.replace(/<script\b[^>]*(?:>[^\>]*?</script>|\/>)/ig,
        '<blink/>');
}

```

```

function checkPage(url, callback, force_snapshot) {
    getPage(url, function(page) {
        if (!page || page.updated) {
            (callback || $.noop)(url);
            return;
        }
    })
}

```

```

$.ajax({
  url: url,
  dataType: 'text',
  timeout: page.check_interval / 2,
  success: function(html, _, xhr) {
    var type = xhr.getResponseHeader('Content-type');
    cleanAndHashPage(html, page.mode, page.regex, page.selector,
      function(crc) {
...
        setPageSettings(url, settings, function() {
          (callback || $.noop)(url);
        });
      });
    },
    error: function() {
      setPageSettings(url, { last_check: Date.now() }, function() {
        (callback || $.noop)(url);
      });
    }
  });
});
}

function getPage(url, callback) {
  if (!callback) return;

  executeSql('SELECT * FROM pages WHERE url = ?', [url],
function(result) {
  console.assert(result.rows.length <= 1);
  if (result.rows.length) {
    var page = result.rows.item(0);
    if (!page.check_interval) {
      page.check_interval = getSetting(SETTINGS.check_interval);
    }
    callback(page);
  } else {
    callback(null);
  }
});
}
}

```

54. Aghjjaljnedejbinmnonneomgdcpcodcg FP

from bg_chrome_runtime_MessageExternal to fetch_resource_sink

Minified code

Hardcoded url: `const o="https://api.jobmonk.ai"`

```
chrome.runtime.onMessageExternal.addListener(async function (t, i, c) {  
...  
  else if ("isContactSaved" === t.action) {  
    const o$1 = t.linkedin_url;  
    fetch(`${o}/user/contact/search?linkedin_url=${o$1}`, {  
credentials: "include" })  
      .then((e) => e.json())  
      .then((e) => {  
        200 === e.code ? c({ success: !0, contactInfo: e.result }) :  
c({ success: !1 });  
      })  
      .catch((e) => {  
        console.error("Error:", e), c({ success: !1 });  
      });  
  }  
}
```

55. Aglnkoopmabgbmiiadejbhchhkfeimfb FP

from cs_window_eventListener_message to chrome_storage_local_set_sink

Minified code

Storage set with hardcoded values, not attacker controled

```
window.addEventListener("message", (e) => {  
  var d, o, a;  
  e.source === window &&  
    ("CK_TUNER_LOGIN" === e.data.type  
      ? null === (d = null === chrome || void 0 === chrome ? void 0 :  
chrome.runtime) ||  
        void 0 === d ||  
        d.sendMessage({ type: "CK_TUNER_LOGIN", payload: e.data.payload  
}))  
      : "CK_TUNER_TOKEN" === e.data.type  
      ? null === (o = null === chrome || void 0 === chrome ? void 0 :  
chrome.runtime) ||  
        void 0 === o ||  
        o.sendMessage({ type: "CK_TUNER_TOKEN", payload: e.data.payload  
}))  
      : "CK_TUNER_LOGOUT" === e.data.type &&  
        (null === (a = null === chrome || void 0 === chrome ? void 0 :  
chrome.runtime) || void 0 === a || a.sendMessage({ type:  
"CK_TUNER_LOGOUT" })))  
});
```

bg.js

```
chrome.runtime.onMessage.addListener(function (t, r, n) {
  ...
  else if ("CK_TUNER_TOKEN" === h) {
    ...
  }) (f);
  chrome.storage.local.set(t, () => {
    console.info("Authorization Added from tuner token"), n();
  });
})
```

56. Agponkjjpabaenpkcbccjlpjgfcconkcle FP

from jQuery_get_source to bg_localStorage_setItem_value_sink

No original lines reported

hard coded GET url, no attacker controlled flow

```
var utils = {keys: {domain: "http://vgorode.ua/"
```

```
methods: {
  loadConfig: function () {
    $.getJSON(utils.keys.domain + "chrome/app.config.hnd",
function (data) {
  if (data) {
    if (data.TimeOut) {
      localStorage.setItem(utils.keys.timeOutKey,
data.TimeOut);
    }

    if (data.Template) {
      localStorage.setItem(utils.keys.templateKey,
data.Template);
    }
  }
});
},
},
```

57. Ahbkijinljkkjekokgmajcckmloageean

from fetch_source to chrome_storage_local_set_sink

No ref original code

Call hardcoded url with new tab url domain param: fetch_url =

"https://www.couponline.com/gcap/?find=" + domain + "&hash=" + rot13(domain);

```
chrome.tabs.onActivated.addListener(function (info) {
  var tab = chrome.tabs.get(info.tabId, function (tab) {
    update_popup(tab);
  });
});
```

```

function update_popup(tab) {
  chrome.browserAction.setBadgeText({ text: "" }); // clear badge first
  var change_url = tab.url;
  // not equal = good tab else invalid tab
  if (domain_from_url(change_url) != tab.title) {
    var domain = domain_from_url(change_url);
    if (domain.includes(".")) {
      var url_exists_key = domain + "_" + "exists";
      var url_content_key = domain + "_" + "content";
      chrome.storage.local.get([url_exists_key, url_content_key],
function (result) {
      if (result[url_exists_key] != "yes") {
var fetch_url = "https://www.couponlime.com/gcap/?find=" + domain +
"&hash=" + rot13(domain);
      fetch(fetch_url)
        .then((r) => r.text())
        .then((download) => {
          chrome.storage.local.set({ [url_exists_key]: "yes",
[url_content_key]: download }, function () {});

```

58. Ahiedeifpahggdhdgibplhdjnkknkgnil TP

from bg_chrome_runtime_MessageExternal to chrome_storage_local_set_sink

Sets storage with attacker data and later redirect to url from storage

```

chrome.runtime.onMessageExternal.addListener(function (request, sender,
respond) {
  if (request == "installed?") {
    respond(true)
  }
  if (request.newDefaultCauseId) {
    var spendow_data = 'spendow_data';
    chrome.storage.local.get([spendow_data], function (result)
{
      var data = result[spendow_data];
      var all_data = {};
      all_data['newDefaultCauseId'] =
request.newDefaultCauseId;
      all_data['userId'] = request.userId;
      var c_obj = {};
      c_obj[spendow_data] = JSON.stringify(all_data);
      chrome.storage.local.set(c_obj);
    });

```

```
}
```

```
function redirectToSpendowLink(host, original_link) {
    var spendow_data = 'spendow_data';
    chrome.storage.local.get([spendow_data], function (result) {
        data = result[spendow_data];
        var all_data = {};
        if (data) {
            all_data = JSON.parse(data);
        }
        var linkdata = null;
        if (host in all_data) {
            linkdata = all_data[host];
        }
        if ('final_destination' in all_data &&
all_data['final_destination'] != "") {
            var c_obj = {};
            var destination = all_data['final_destination'];
            all_data['final_destination'] = "";
            c_obj[spendow_data] = JSON.stringify(all_data);
            chrome.storage.local.set(c_obj);
            window.location = destination;
        }
    })
}
```

59. Ahkegepjekjppmhajnhaiodhfmgemdag

from cs_window_eventListener_message to XMLHttpRequest_post_sink

Hardcoded url and attacker controls only body:

```
contentScript.onMessage.addListener(
    function(message) {
        if(message.type == "START SESSION") {
            currentAction = message.action
            currentUser = message.userId
            if(message.returnJson)
                returnJson = true
            else
                returnJson = false
            sendProbeRequest()
        }
        else...
```

```
var phpBiometricEndpoint =
"https://www.arwan.biz/acrossyrs/framfiles/biometrics.php";
```



```
function sendProbeRequest() {
  var http = new XMLHttpRequest()
  var params = ({
    extensionId: chrome.runtime.id,
    requestType: "probe",
    userId: currentUser
  })

  http.open('POST', phpBiometricEndpoint, true);
  http.send(JSON.stringify(params));
}
```

60 ahmpjcfkigiildlgicmcieglgoilbfdp FP

from management_getSelf_source to externalNativePortpostMessage_sin

No lines reported

Get ext info and store boolean to storage. onInstall is empty

```
ExtensionInstallationMgr.prototype.onInstalled = function(details)
{
  var reason = details['reason'];
  switch (reason){
    case "install":
      // Find chrome url in history and set local storage value
      browser.management.getSelf(function(extensionInfo) {
```

...

```
        if (installed_from_store)
          this.setInstalledFromStore(true);

        this.onInitialInstall();
      }
    }
  }
}
```

```
ExtensionInstallationMgr.prototype.setInstalledFromStore = function
(value) {
  this.installedFromStore = value;
  this.setLocalStorageValue(EXTENSION_INSTALLED_FROM_STORE_KEY, value);
};
```

```
ExtensionInstallationMgr.prototype.onInitialInstall = function () {};
```

61. Aiakebflnppepaioijooaildphcniophe TP

from cs_window_eventListener_message to chrome_storage_local_set_sink

[index-CgzxZAqO.js](#) has GET and is minified

```
window.addEventListener('message', function(event) {
  if (event.source !== window) return;
  if (event.data.type && event.data.type === "FROM_REACT_APP") {
    console.log("Content script received message:", event.data);
  }
});
```

```

        chrome.runtime.sendMessage(event.data.payload, function(response)
{
    console.log("Received response from background:", response);
});
    }
}, false);

```

```

chrome.runtime.onMessage.addListener((request, sender, sendResponse) =>
{
    if (request.action === "rolochat-app") {
        chrome.storage.local.set({ rolochat: request.data }, () => {
            sendResponse({ status: "success" });
        });
        return true;
    }
});

```

[index-CgzxZAqO.js](#)

```

pE = async () =>
(
    await new Promise((t, n) => {
        chrome.storage.local.get("rolochat", (r) => {
            chrome.runtime.lastError ?
n(chrome.runtime.lastError.message) : t(r.rolochat);
        });
    })
).token,

```

62. Aibadchapcfhkkaofakhbdpemlnkckge FP

Hardcoded url

from cs_window_eventListener_message to chrome_storage_local_set_sink

Minified: SET storage also GET

```

window.addEventListener("message", function (t) {
    return e(this, void 0, void 0, function* () {
        switch (t.data.type) {
            case "runtimeUrl":
                const e = chrome.runtime.getURL(t.data.url);
                window.postMessage({ type: "onRuntimeUrl", data: { url: e }
}, "*");
                break;
            case "teraTokenUpdate":
                chrome.storage.local.set({ teraToken: t.data.token });
                break;

```

GET:

```
const a = (a, t, o, r) =>
  e(void 0, void 0, void 0, function* () {
    try {
      const e = r || (yield
chrome.storage.local.get("teraToken")).teraToken,
      n = yield fetch("https://api.tera.chat/v1/crm/" + a, {
        method: t,
        headers: { authorization: `Bearer ${e}`, "Content-Type":
"application/x-www-form-urlencoded" },
        body: o,
      });
      return yield n.json();
    }
  })
```

63. Aicohdnbjhighmdoeilbigahinnmcnnnk TP

from cookies_source to externalNativePort.postMessage_sink

Get cookies and send back

```
contentport.onMessage.addListener(function (data, sender) {...
if (data.method == "Init") {
  data.alltabids = [];
  for (var id in contentports) {
    data.alltabids.push(id.toString());
  }
  postMessageWithCookies(data, contentport, contentportid);
}
```

```
function postMessageWithCookies(data, contentport, contentportid) {
  try {
    chrome.cookies.getAllCookieStores(function (stores) {
      try {
        var storeid = null;
        for (var i = 0; i < stores.length; i++) {
          for (var j = 0; j < stores[i].tabIds.length; j++) {
            if (stores[i].tabIds[j] === contentportid) {
              storeid = stores[i].id;
              break;
            }
          }
        }
        if (storeid) {
          break;
        }
      }
    })
  }
}
```

```

        chrome.cookies.getAll({ url: data.srcurl, storeId: storeid },
function (cookies) {
    try {
        var cookiestr = "";
        if (cookies) {
            for (var i = 0; i < cookies.length; i++) {
                var cookie = cookies[i];
                cookiestr += (cookiestr ? "; " : "") + cookie.name +
"=" + cookie.value;
            }
        }
        data.indata.cookies = cookiestr;
    } catch (e) {
        handleError(e);
    }
    try {
        port.postMessage(data);
    }
}

```

64. Aidompfihhjpgdgcklclcdiobfifabnapl FP

Hardcoded url

```

var domains = await fetch('domains.json').then(function(response) {
    return response.json();
});
var magica = getUrl(domains['magica']);

```

from bg_chrome_runtime_MessageExternal to bg_localStorage_setItem_value_sink

```

chrome.runtime.onMessageExternal.addListener(function(tokens, sender,
sendResponse) {
    var settings = JSON.parse(localStorage.getItem('lxSettings') ||
'{"defaultHost": "https://www.luxurynsight.com/access/"}');

    if (!sender.url) {
        return;
    }
    if (sender.url.indexOf(settings.defaultHost) === -1) {
        return;
    }

    localStorage.setItem('lxTokens', JSON.stringify(tokens));
    chrome.tabs.remove(parseInt(localStorage.getItem('tabId') || 0));
});

```

Also get in `\js\main.js` - not analyzed by coco or LLM

```
(async function(document, AlgoliaSearch) {...  
var tokens = JSON.parse(localStorage.getItem('lxTokens') || '{}');
```

```
var user = await fetch(magica+'users/checkToken', {  
  headers: {'X-Token': tokens.magicaToken}  
}).then(function(response) { return response.json(); });
```

65 aigcbpaaeflggbfikokmkkfecnlcodoh FP

Hardcoded url

from document_eventListener_updateAddressEvent to chrome_storage_local_set_sink

```
document.addEventListener("updateAddressEvent", function (event) {  
  if (!checkDomain()) {  
    return false;  
  }  
  chrome.runtime.sendMessage({  
    action: "updateAddress",  
    assignedAddress: event.detail.assignedAddress,  
    assignedKey: event.detail.assignedKey,  
  });  
});
```

[bg.js](#)

```
chrome.runtime.onMessage.addListener(function (message, sender,  
sendResponse) {  
  /* If user is on TemporaryMail.com and has updated their address,  
  then catch it here and update it in the ext as well */  
  if (message.action == "updateAddress") {  
    loadData(["assignedKey", "assignedAddress"], function (savedData) {  
      if (savedData.assignedKey != message.assignedKey ||  
savedData.assignedAddress != message.assignedAddress) {  
        saveData("assignedKey", message.assignedKey);  
        saveData("assignedAddress", message.assignedAddress);  
        showNotification("Address updated", "Your address has been  
updated to " + message.assignedAddress);  
        updateVisibleAddress(message.assignedAddress);  
        chrome.storage.local.remove("emails", function () {  
          console.log("Emails have been cleared");  
          updateBadge(0);  
          checkMail();  
        });  
      } ...  
    }  
function saveData(key, value) {  
  chrome.storage.local.set({ [key]: value }, function () {  
    console.log("Value is set to ", value);
```

```

    });
}

function loadData(keys, callback) {
  chrome.storage.local.get(keys, function (result) {
    if (chrome.runtime.lastError) {
      console.error(`Error retrieving data from storage:
${chrome.runtime.lastError}`);
      return;
    }
    // Prepare an object to hold results for each key
    const data = {};
    keys.forEach((key) => {
      data[key] = result[key];
    });
    callback(data);
  });
}

fetch("https://temporarymail.com/extension/api/check/", {
  method: 'POST',
  body: JSON.stringify({
    s: savedData.assignedKey, // Include the secretKey
    k: keysDictionary // Include the collected keys
  })
})

```

66. Aigggkimjmfijfbhlonlbgajnoilbbb FP

from fetch_source to bg_localStorage_setItem_value_sink

Hardcoded fetch to storage set

```

fetch("https://raw.githubusercontent.com/ZhuPeng/mp-transform-public/master/.config.json")
  .then((response) => response.json())
  .then((data) => {
    console.log("fetch data:", data);
    localStorage.setItem(key, JSON.stringify(data));
  })
  .catch((error) => {
    console.log("fetch json:", error);
  });

```

67. Ailhophdeloancmhdklbbkobcbbnbglm TP

from cs_window_eventListener_message to chrome_storage_sync_set_sink

Store attacker data on any message also GET

cs.js

```
window.addEventListener("message", function (event) {
    // Ensure the message is from the correct source
    if (event.source !== window) {
        return;
    }

    if (event.data.type === "interceptedResponse") {
        var _chrome$runtime;
        var _event$data$detail = event.data.detail,
            responseHeaders = _event$data$detail.responseHeaders,
            responseBody = _event$data$detail.responseBody,
            statusCode = _event$data$detail.statusCode,
            url = _event$data$detail.url,
            requestId = _event$data$detail.requestId;
        (_chrome$runtime = chrome.runtime) === null ||
        _chrome$runtime === void 0 ||
        _chrome$runtime.sendMessage({
            type: "capturedResponse",
            requestId: requestId,
            responseHeaders: responseHeaders,
            responseBody: responseBody,
            statusCode: statusCode,
            url: (url === null || url === void 0 ? void 0 :
url.toString()) || "",
        });
    }
});
```

.....

```
// Check for specific message types
if (
    event.data.type === "check_extension" ||
    event.data.type === "run_tests_request" ||
    event.data.type === "update_tc_ext_config" ||
    event.data.type === "tc_open_options_page"
) {
    // Forward messages to the background script
    if (event.data.type === "update_tc_ext_config") {
        console.log("Received extension configuration message:",
event.data.payload);
        // Extract the data to be stored from the message
        var dataToStore = event.data.payload; // Assuming payload
contains the key-value pairs

        // Store the data in chrome.storage.sync
```

```
chrome.storage.sync.set(dataToStore, function () {
```

[bg.js](#)

```
const getConfig = async () => {  
  return new Promise((resolve) => {  
    chrome.storage.sync.get([  
      'uriRegexToIntercept',  
      'excludedUriRegexList',  
      'enableOptionsCallTracking',  
      'projectId',  
      'sessionRecordingApiKey',  
      'endpoint',  
      'environment',  
      'currentUserId',  
      'enableRunLocallyForTcRuns'  
    ], (result) => {
```

68. Ainfeddpkaecnppaginaecbbjpmfich FP

from jQuery_ajax_result_source to jQuery_ajax_settings_data_sink

All ajax calls to hardcoded url and only data in POST is attacker controlled

[bg.js](#)

```
function get_profile_done(result) {  
  var json;  
  try {  
    json = $.parseJSON(result);  
  } catch (e) {  
    console.log("parse-json" + result);  
  }  
  if (json) {  
    settings.the_user = json.NAME;  
    settings.the_hash = json.HASH;  
  }  
}
```

```
chrome.extension.onMessage.addListener(function (request, sender,  
sendResponse) {  
  if (request.message === "bookmark") {  
    chrome.tabs.query({ active: true }, function (tabs) {  
      bookmark(request.winurl, request.wintitle, "", "", "extn");  
    });  
  }  
}
```



```

    if (request.message === "changeprofile") {
        //bkg.settings.the_user = newValue;
        console.log("hash" + request.tokenhash);
        ajax_call({ action: "CHANGEPROFILE", tokenhash: request.tokenhash,
guid: localStorage.the_guid }, function (response) {
            ajax_call({ action: "GETPROFILE", guid: localStorage.the_guid },
get_profile_done);
        });
    }
}
var SERVICE_URL= "http://getbook.co/core/dbaccess/service_extn.php";

function ajax_call(postdata, on_success) {
    postdata.hash = settings.the_hash;
    $.ajax({
        type: "POST",
        cache: false,
        url: SERVICE_URL,
        data: postdata,
        success: on_success
    });
}

```

69. Ainmgbleakflfgjjoolgmgfepddnpeln FP

from jQuery_ajax_result_source to jQuery_ajax_settings_data_sink

Hardcoded GET

```

getWalletsInfos: function () {
    var wallets = JSON.parse(Config.user.wallets),
        walletsSize = Object.keys(wallets).length,
        walletsListContainer = $(".js--wallets-container"),
        id = 1;
    walletsListContainer.html("");
    var tpl, res, walletValue, walletCurrency;
    for (var i = 1; i <= walletsSize; i++) {
        id = i;
        tpl = $(".js--wallet-tpl").html().replace(new RegExp("{{id}}",
"g"), id).replace("{{col}}", "6");
        walletsListContainer.append(tpl);
        res = App.getAddressInfo(wallets[i].address);
        var json = JSON.parse(res);

        $(".js--wallet-" + i + "-name").html(wallets[i].name);

        if (json["error"] !== undefined) {
            walletValue = "ERROR";

```

```

        walletCurrency = "ERROR";
    } else {
        walletValue = json["ETH"]["balance"];
        walletCurrency = walletValue * rate;
    }
    $(".js--wallet-" + i + "-value").html(walletValue);
    $(".js--wallet-" + i +
"-currency").html(App.priceFormatter(walletCurrency + ""));
}

```

```

getAddressInfo: function (address, callback) {
    var xhr = new XMLHttpRequest(),
        url = "https://api.ethplorer.io/getAddressInfo/" + address +
"?apiKey=freekey";

    xhr.open("GET", url, false);
    xhr.send(null);

    if (xhr.status === 200) {
        return xhr.responseText;
    } else {
        return null;
    }
}

```

70. Aippkbcfhpdhmmamghkpkckjlancmnda FP
from cookies_source to externalNativePortpostMessage_sink
chrome.action.onClicked activates when user click extension icon and goes to native
application only

```

chrome.action.onClicked.addListener(function (tab) {
    var obj = { JSESSIONID: null, EXSessionId: null, evidentialae: null };
    var query = { domain: ".evidentialae.com" };
    chrome.cookies.getAll(query, function (cookies) {
        if (!!cookies && cookies.length > 0) {
            for (var i = 0; i < cookies.length; i++) {
                if (cookies[i].name == "EXSessionId") {
                    obj.EXSessionId = cookies[i].value;
                } else if (cookies[i].name == "evidentialae") {
                    obj.evidentialae = cookies[i].value;
                } else if (cookies[i].name == "JSESSIONID") {
                    obj.JSESSIONID = cookies[i].value;
                }
            }
        }
    })
}

```

```

        if (obj.EXSessionId != null && obj.evidentiae != null &&
obj.JSESSIONID != null) {
            if (!evimagingIsConnected) {
                evimagingStart(JSON.stringify(obj));
            } else {
                evimagingMsgNative(JSON.stringify(obj));
            }
        }
    }
});
});
function evimagingMsgNative(msg) {
    evimagingPort.postMessage({ text: JSON.stringify(msg) });
}

```

```

function evimagingStart(json) {
    evimagingPort =
chrome.runtime.connectNative("com.evidentiae.evimaging");
}

```

71. AjaboiophmaflodkmgIfpngnmiijjkle TP

from storage_local_get_source to sendResponseExternal_sink

Minified - bg js set and get

```

chrome["runtime"]["onMessageExternal"]["addListener"]((w, x, y) => {
    if (x["id"] !== "efmpofoemibeochefpdgajaaoliaehji") return;
    switch (w["m"]) {
        case "i-u":
            chrome["storage"]["local"]["get"](null, (z) => {
                const A = [];
                for (const B in z) {
                    B !== "auth" && B !== "cursorColor" && B !== "smodal" && B
!== "toolbar" && B !== "theme" && B !== "ff" && A["push"](B);
                }
                y({ pus: A });
            });
            return;
        }
    })
}

```

```

chrome["runtime"]["onMessage"]["addListener"]((w, x, y) => {
    switch (w["type"]) {
        case "d":

```

```
chrome["storage"]["local"]["set"]({ auth: { token:
w["payload"]["zM02_ath"], deactivated: "true" } })["then"](() => y());
return !![];
```

72.ajbpbalhigkacocodilnfhedipipjho FP

from cs_window_eventListener_wally.items to chrome_storage_local_set_sink
wally.items

Set data, but does not send back attacker data, send empty data{}

```
window.addEventListener("wally.items", function (t) {
  if (t.detail.type == d.READY)
    chrome.storage.local.set({ wallyDev: { user: t.detail.data.user,
id: t.detail.data.id, server: t.detail.data.server } }),
    chrome.storage.local.get([d.WALLY], function (e) {
      if (null == e[d.WALLY])
        try {
          chrome.runtime.sendMessage({ type: d.WALLYITEMS, method:
d.LOGIN, data: {} });
        } catch (e) {}
      else
        try {
          (e[d.WALLY].device = { user: t.detail.data.user, id:
t.detail.data.id, server: t.detail.data.server }),
          chrome.storage.local.set({ wally: e[d.WALLY] }),
          chrome.runtime.sendMessage({ type: d.WALLYITEMS,
method: d.READY, data: {} });
        } catch (e) {}
    });
  else if (t.detail.type == d.WAINFO) {
    chrome.storage.local.get([d.WALLY], function (e) {
      null != e[d.WALLY] && ((e[d.WALLY].G = t.detail.data),
chrome.storage.local.set({ wally: e[d.WALLY] }));
    });
  }
});
```

73. Ajdkocijpiaaifiabjmgjeffgcbgemmk TP

from bg_chrome_runtime_MessageExternal to chrome_storage_local_set_sink
Minified code, SET and GET also

[bg.js](#) SET

```
chrome.runtime.onMessageExternal.addListener((e, s, t) => {
  "template" === e.message && ((e = e.data), chrome.storage.local.set({
cache: JSON.stringify({ templates: [e] }) })), console.log("Set template
successfully")),
```

```

        t({ success: !0 });
    })),
    chrome.runtime.onMessage.addListener((e, s, t) => {
        t({ success: !0 });
    });

```

[cs.js](#) GET

```

!(function () {
    let a;
    function e() {
        setInterval(() => {
            const e =
document.querySelectorAll("div[contenteditable='true']");
            e.forEach((t) => {
                ("<br>" === t.innerHTML || (t.childNodes[0] && "<br>" ===
t.childNodes[0].innerHTML)) &&
                chrome.storage.local.get(["cache"], (e) => {
                    var o,
                        e = JSON.parse(e.cache);
                    (a = e.templates[0]) && ((e = atob(a.body)), (o =
t.querySelector(".plane") || (e && (o.innerHTML = e))));
                });
            });
        }, 500);
    }
}

```

74.ajlbdfilhaafncepndpkdgejimggjcpcnm FP

Hardcoded url

from cookies_source to externalNativePort.postMessage_sink

from cookies_source to window_postMessage_sink

```

var port = chrome.runtime.connectNative("com.fabasoft.nmhostpml7");

```

cookiestr += (cookiestr ? ";" : "") + cookie.name + "=" + cookie.value

Cs script send to bg where cookies are get and posted back

```

if (!alreadyactive) window.addEventListener("message", function(event)
{
    if (event.source !== window) {
        return;
    }
    if (windoworigin && event.origin !== windoworigin) {
        return;
    }
    // --

```

```

    if (event.data.type && (event.data.type ==
"com.fabasoft.nm.sendpm17")) {
        if (!windoworigin) {
            windoworigin = event.source.origin;
        }...
        if (windoworigin) {
            window.postMessage(response, windoworigin);
        }
    }
}

```

Bg script

```

chrome.runtime.onConnect.addListener(function(contentport) {
    var contentportid = contentport.sender.tab.id + "#" +
nextcontentportid++;
    var released = false;
    // console.log("com.fabasoft.nm/pm17/nmextback: Content script
connected: " + contentportid);
    // if (contentports[contentportid]) {
    //     console.log("com.fabasoft.nm/pm17/nmextback: Content script
already connected: " + contentportid);
    // }
    contentports[contentportid] = contentport;
    contentport.onMessage.addListener(function(data, sender) {
...
        try {
            data.srclid = contentportid.toString();
            if (data.method == "Init") {
                data.alltabids = [];
                for (var id in contentports) {
                    data.alltabids.push(id.toString());
                }
                postMessageWithCookies(data, contentport, contentportid);
            }
            else if (data.method == "UpdateLoginToken") {
                postMessageWithCookies(data, contentport, contentportid);
            }
            else {
                port.postMessage(data);
            }
        }
    }
}

```

75. ajlejfdclldnlbfemhomgoainocgjpmb FP

from storage_sync_get_source to window_postMessage_sink

GET storage, cannot SET, poison.

button: value["option_button"] ? value["option_button"] : "all",

```

window.addEventListener(
    "message",
    function (e) {
        switch (e.data.type) {
            case "requestMessage":
                getMessageFromChromeSync();
                break;
            default:
                break;
        }
    },
    false
);

function getMessageFromChromeSync() {
    chrome.storage.sync.get(null, function (value) {
        window.postMessage(
            {
                type: "optionsMsg",
                auto: value["ytAutoLoop"] ? value["ytAutoLoop"] : false,
                button: value["option_button"] ? value["option_button"] :
"all",
                key: value["ytShortcut"]
                    ? value["ytShortcut"] == "false"
                    ? false
                    : true
                    : true,
                panel: value["ytLoopPanel"]
                    ? value["ytLoopPanel"] == "false"
                    ? false
                    : true
                    : true,
                playersizeEnable: value["ytPlayerSizeEnable"]
                    ? value["ytPlayerSizeEnable"] == "true"
                    ? true
                    : false
                    : false,
                playersize: value["ytPlayerSize"] ? value["ytPlayerSize"] :
"normal",
                quality: value["ytQuality"] ? value["ytQuality"] : "default",
                show_changelog: value["option_show_changelog"]
                    ? value["option_show_changelog"] == "false"
                    ? false
                    : true
            }
        );
    });
}

```

```

        : true,
    },
    "*"
);
});
}

```

76. Ajmecfihhnbjmmihpecefjjckgbmedh FP (would be TP if it would have the "browsingData" permissions in manifest)

chrome_browsingData_remove_sink 0 no lines detected

```

chrome.runtime.onMessageExternal.addListener(function (request, sender,
sendResponse) {
...
} else if (portBackgroundToExe != undefined) {
    } else if (request.Type == "CleanCache") {
        isNotSendToEXE = true;
        isSendResponse = false;
        CleanCache(request.strHost);
    }
}

```

```

function CleanCache(strHost) {
    DebugOut("bkjs - CleanCache in." + strHost);
    var strMatch = strHost;
    chrome.browsingData.remove(
        { since: 0 },
        {
            appcache: false,
            cache: true,
            cookies: false,
            downloads: false,
            fileSystems: false,
            formData: false,
            history: false,
            indexedDB: false,
            localStorage: false,
            pluginData: false,
            passwords: false,
            webSQL: false,
        }
    );
}

```



```
}
```

77. Ajmmnginoegpealjpidjmcjokilheklk TP

from fetch_source to fetch_resource_sink

```
if (request.message === "get_img_dataURL") {  
  toDataURL(request.img_url).then((dataUrl) => {  
    sendResponse({ ImgURL: dataUrl });  
  });  
}
```

```
const toDataURL = (url) =>  
  fetch(url)  
    .then((response) => response.blob())  
    .then(  
      (blob) =>  
        new Promise((resolve, reject) => {  
          const reader = new FileReader();  
          reader.onloadend = () => resolve(reader.result);  
          reader.onerror = reject;  
          reader.readAsDataURL(blob);  
        })  
    );
```

78. Ajpbkaapjgggebofpnhmnaeddeddobgk FP

from fetch_source to chrome_storage_local_set_sink

Hardcoded and oninstalled

```
chrome.runtime.onInstalled.addListener(() => {  
  fetch("./def-cursors/data.json")  
    .then((response) => {  
      return response.json();  
    })  
    .then((jsondata) => {  
      chrome.storage.local.set({ customCursors: jsondata });  
      chrome.storage.local.set({ selectedCursor: null });  
    });  
});
```

79. Ajpkpmmiaofbkfchcombbcgjpiibnpgfp FP

from XMLHttpRequest_responseText_source to chrome_storage_sync_set_sink

Hardcoded url

```
var url = "http://codernotes.herokuapp.com/";
```

```
function retrieveNotebooks() {
```

```

chrome.storage.sync.get('currentUser', function(result) {
  if (result.currentUser) {
    var currentUser = result.currentUser;

    var xhr = new XMLHttpRequest();
    xhr.open("GET", url + 'api/notebooks/nontrash', true);
    xhr.setRequestHeader("Content-Type",
"application/json;charset=UTF-8");

    xhr.onreadystatechange = function() { //Call a function when the
state changes.
      if(xhr.readyState == 4 && xhr.status == 200) {
        var notebooksJSON = JSON.parse(xhr.responseText);

        var notebooks = [];

        for (var i = 0; i < notebooksJSON.length; i++) {
          notebooks.push([notebooksJSON[i].title,
notebooksJSON[i]._id]);
        }

        chrome.storage.sync.set({notebooks: notebooks}, function() {
          for (var i = 0; i < notebooksJSON.length; i++) {
            var notebook = "<option>" + notebooksJSON[i].title +
"</option>"
            $(notebook).appendTo("#notebook");
          }
        })
      }
    }
    xhr.send();
  }
})
}

```

80. Akaghbppajebgbeaikhobgbifkcgami TP

from document_eventListener_gwd_extension to chrome_storage_local_set_sink

Set and GET

```

document.addEventListener('gwd_extension', function(e) {
  switch (e.detail.type) {

```

```

    case "setStoreRate":
      setStoreRate(e.detail.info)

```

```

    Break;
    case "getStoreRate":
        getStoreRate()
        break;

```

```

function setStoreRate(currency) {
    chrome.storage.local.set({
        'currency': currency
    })
}
function getStoreRate() {
    chrome.storage.local.get('currency', function(info) {
        if (info)
            dispatch('getStoreRate', info)
    })
}

```

81. Akdabingkpcjckakmgjjiobfmangaped

from bg_chrome_runtime_MessageExternal to chrome_storage_local_set_sink

SET also GET in index-faa71391.js

```

chrome.runtime.onMessageExternal.addListener(function (request, sender,
sendResponse) {
    if (request) {
        if (request.message) {
            if (request.message === 'version') {
                sendResponse({ version: chrome.runtime.getManifest().version
});
            }

            if (request.message === 'login') {
                chrome.storage.local.set({
                    apiKey: request.data.apiKey,
                    user: request.data.user
                }).then(() => {
                    sendResponse({ message: 'Login' });
                });
            }

            if (request.message === 'logout') {
                chrome.storage.local.remove('apiKey').then(() => {
                    sendResponse({ message: 'Logout' });
                });
            }

```

```

    }
function vN() {
  const [e] = UC(),
    { logout: t, setUser: n } = Eg,
    { updateApiKey: r } = KC,
    i = G1(),
    o = async () => {
      chrome.storage.local.get(["apiKey", "user"]).then((s) => {
        s.apiKey && s.user ? (i(n(s.user)), i(r(s.apiKey)), e()) :
        i(t());
      });
    };
  };
}
}
}

```

82. Akhomcaccpndpgckgpkmcijkimphhmk TP

from cs_window_eventListener_message to chrome_tabs_executeScript_sink

Cs.js

```

window.addEventListener("message", receiveMessage, false);

function receiveMessage(event) {
  if (typeof(event.data) === 'string') var parsed_data =
$.parseJSON(event.data);

  else if (parsed_data.sender === 'sidebar') {
    chrome.runtime.sendMessage(parsed_data, function(response) {
    });
  }

}

chrome.runtime.onMessage.addListener(function(request, sender,
sendResponse) {
  if (request.sender === 'inject' && request.user) {
    gm_user = request.user;
    if (canvas_is_ready) {
      iframe_node.contentWindow.postMessage(JSON.stringify({
sender: 'main', gm_user: gm_user }), '*');
    }
  }
}

```

Sets the data to then exec

```
chrome.runtime.onMessage.addListener(function(request, sender,
sendResponse) {
    if (request.sender === 'main' && request.script_requests) {
        executeScripts(sender.tab, request.script_requests, function()
            chrome.tabs.sendMessage(sender.tab.id, { sender: 'inject',
scripts_injected: true }, function(response) {
                }));});
```

bg.js

```
chrome.runtime.onMessage.addListener(function(request, sender,
sendResponse) {
    if (request.sender === 'main' && request.script_requests) {
        executeScripts(sender.tab, request.script_requests, function()
{
            chrome.tabs.sendMessage(sender.tab.id, { sender: 'inject',
scripts_injected: true }, function(response) {
                // console.log(response);
            })
        });
    }
}
```

```
function executeScripts(tab, script_info, callback) {
    if (script_info.length === 0) callback();
    for (var i=0; i<script_info.length; i++) {
        chrome.tabs.executeScript( tab.id
                                , script_info[i]
                                , i < script_info.length-1 ? null :
callback );
    }
}
```

83. Akjadnancjpkjekagaiffngpmgccdeol FP

from XMLHttpRequest_responseText_source to XMLHttpRequest_url_sink

Hardcoded url

```
var streamerURL = "dexmaan";
```

```
function checkstream(){
    var xhr1 = new XMLHttpRequest();
    xhr1.open("GET", "https://api.twitch.tv/kraken/users?login=" +
streamerURL, true);
    xhr1.setRequestHeader("Accept", "application/vnd.twitchtv.v5+json");
```

```

xhr1.setRequestHeader("Client-ID", "s9qt2epst6li0ihjgzx8lxpt283nz1");
xhr1.onreadystatechange = function (channel) {
    if(xhr1.readyState == 4) {
        var data1 = JSON.parse(xhr1.responseText)
        streamerID = data1.users[0]._id;
        var xhr = new XMLHttpRequest();
        xhr.open("GET", "https://api.twitch.tv/kraken/streams/" +
streamerID, true);

```

84. Albdahjdcmldbcpjmbnbcbbckgndaibnk TP

from storage_sync_get_source to sendResponseExternal_sink

```

chrome.runtime.onMessageExternal.addListener(
    function(request, sender, sendResponse) {
        chrome.storage.sync.get("axapi", function(data) {
            if (data.axapi.isURL) {
                sendResponse({
                    message: "No API key",
                    success: false
                });
            } else {
                sendResponse({
                    key: data.axapi.host,
                    message: "Found API key",
                    success: true
                });
            }
        });
    });
});

```

85. Albfhllpljifkmpblbcmmfppfcfdlpdcf TP

from cs_window_eventListener_message to chrome_storage_local_set_sink

```

window.addEventListener("message", async function(event) {
    if(event.data.message === "set"){
        saveToLocalStorage(event.data.objPassed);
        window.postMessage({message: "Set Done"}, "*");
    }else if(event.data.message === "get"){
        var keys = event.data.keys;
        getFromLocalStorage(keys, function(result) {
            window.postMessage({message: "getCompleted", result:result},
            "*");
        });
        return true; // indicate that a response will be sent
asynchronously
    }
});

```

86. Alhidfgffpaibannkgaefjphakdabgdc FP

chrome_browsingData_remove_sink

No trigger except click on icon

```
chrome.action.onClicked.addListener(tab => {
    //let [tab] = await chrome.tabs.query({ active: true,
currentWindow: true });
    let url = new URL(tab.url);
    let domain = url.protocol + '//' + url.host;

    clearCache(domain);
});

function clearCache(domain) {

    console.log('Cleaning up', domain)

    chrome.browsingData.remove(
        {
            'origins': [domain],
            'since': 0
        },
        {
            'cache': true,
        }, function() {console.log('Cleanup complete.')}
    );
}
```

87. Alijejppakocidgemagogfacnenpigjd TP

from bg_chrome_runtime_MessageExternal to chrome_storage_sync_set_sink

Get in minified cs

```
chrome.runtime.onMessageExternal.addListener(function(request, sender,
sendResponse) {
    if(request.msg === "SET_TOKEN") {
        chrome.storage.sync.set({ token: request.token })
    }

    if(request.msg === "REMOVE_TOKEN") {
        chrome.storage.sync.set({ token: null })
    }

    return true
})
```

[main.js](#)

```
chrome.storage.sync.get("token", (t) => {
  t.token &&
    ((eb = t.token.token),
    (nb = t.token.expired),
    (window.likestats.token = t.token.token),
    qv.commit("setToken", t.token.token),
    qv.dispatch("loadProfile"));
});
```

88. Allamanichfmbdahldekgoipfeoonpda TP

from cs_window_eventListener_message to chrome_cookies_set_sink

[cs.js](#) forwards

```
window.addEventListener(
  "message",
  (event) => {
    if (event.source !== window) return;
    if (event.data.type && event.data.type === "FROM_PAGE") {
      try {
        chrome.runtime.sendMessage({ action: "changeCookie", cookie:
event.data.cookie }, function (response) {
          if (chrome.runtime.lastError) {
            window.postMessage({ type: "COOKIE_STATUS", status:
"error" }, "*");
            return;
          }
          if (response && response.status) {
            window.postMessage({ type: "COOKIE_STATUS", status:
response.status }, "*");
          } else {
            window.postMessage({ type: "COOKIE_STATUS", status:
"error" }, "*");
          }
        });
      } catch (error) {
        window.postMessage({ type: "COOKIE_STATUS", status: "error"
}, "*");
      }
    }
  },
  false
);
})();
```


Bg set

```
chrome.runtime.onMessage.addListener((request, sender, sendResponse) =>
{
  console.log("Message received in background:", request);
  if (request.action === "changeCookie") {
    chrome.cookies.getAll({ domain: "steamcommunity.com", name:
"steamLoginSecure" }, function (cookies) {
      cookies.forEach((cookie) => {
        chrome.cookies.remove({ url: "https://steamcommunity.com",
name: cookie.name }, function (details) {
          if (chrome.runtime.lastError) {
            } else {
              }
            });
          });
        chrome.cookies.set(
          {
            url: "https://steamcommunity.com",
            name: "steamLoginSecure",
            value: request.cookie,
            domain: ".steamcommunity.com",
            path: "/",
            secure: true,
            httpOnly: true,
            sameSite: "lax",
          },
          function (cookie) {
            if (chrome.runtime.lastError) {
              sendResponse({ status: false, error:
chrome.runtime.lastError });
            } else {
              sendResponse({ status: true, cookie: cookie });
            }
          }
        );
      });
    });
  }
```

89. AllbpdjnlppejnnngnhecjgmplkediaId TP

from Document_element_href to chrome_storage_local_set_sink

Mouse movement changed cursorADD which then is stored

```
document.addEventListener("mousemove", nicecursorElement);
```

```
let nicecursorElement = function(e) {
```

```

    try {
        nicecursorManager(document.elementFromPoint(e.clientX,
e.clientY)),
        nicecursorManager(document.elementFromPoint(e.clientX + 10,
e.clientY + 10)),
        nicecursorManager(document.elementFromPoint(e.clientX - 10,
e.clientY - 10));
    } catch (e) {}
}
function nicecursorManager(e) {
    if (typeof e === "Element") {
        let t = getComputedStyle(e).cursor;
        if ("pointer" === t || "default" === t || "auto" === t) {
            "auto" === t && (t = "default");
            let n = e.classList,
                o = e.nodeName,
                c = e.style.cursor;
            if (0 !== n.length && "" === c) {
                let e = o;
                for (let t = 0; t < n.length; t++) e += "." + n[t];
                "default" === t ? cursorADD += e + "," : pointerADD +=
e + ",", nicecursorstyleManager("create")
            } else n.contains("mc_" + t) || n.add("mc_" + t)
        }
    }
}

```

```

nicecursorstyleManager = function(e) {
    var check_popup_page =
document.body.contains(document.getElementById("use_system_cursors"));
    cur_storage.get(local_values, function(data) {
        var default_curSize = data.default_curSize;
        var pointer_curSize = data.pointer_curSize;
        var dSrc = data.default_cursor_result;
        var pSrc = data.pointer_cursor_result;
        var switch_status = data.switch_status;
        var cssElm = data.css_elm;
        if (switch_status == "false") {
            cursors_style_code = "";
            cssElm.innerHTML = "";
        }
        document.querySelectorAll('[cursors="cursors_style_code"]').forEach(el
=> el.remove());
    });
}

```

```

    }
    if (e === "create" && switch_status == "true") {
        let t = "";
        if (typeof dSrc !== "undefined" && dSrc.length > 0)
t = t + cursorADD + ".mc_default { cursor: url(" + dSrc + "), default
!important; } ";
        if (typeof pSrc !== "undefined" && pSrc.length > 0) t = t +
pointerADD + ".mc_pointer { cursor: url(" + pSrc + "), pointer
!important; } ";
        if (!check_popup_page) {
            if (typeof cursors_style_code !== "undefined" &&
cursors_style_code == t) {
                cssElm.innerHTML = t;
            } else {

document.querySelector('[cursors="cursors_style_code"]').forEach(el
=> el.remove());

                cursors_style_code = t;
                cssElm = document.createElement("style");
                cssElm.rel = "stylesheet";
                cssElm.setAttribute("cursors",
"cursors_style_code");
                cssElm.innerHTML = t;
                document.head.appendChild(cssElm);
            }
        }
    }
    if (e === "remove") cssElm.innerHTML = "";
    cur_storage.set({
        css_elm: cssElm
    });
});

```

90. Alnkbbbeaagbhcfdlbbkmfdjapkgji FP

from cs_window_eventListener_message to XMLHttpRequest_post_sink

```
this.baseUrl = "http://localhost:35363/api/PrintService/";
```

Send attacker data to hardcoded POST url, needs preconfiguration

```

window.addEventListener("message", function (event) {
    if (event.data.type && (event.data.type ==
"CHECK_PRINT_PROCESSOR_EXTENSION")) {
        window.postMessage({ type:
"CHECK_PRINT_PROCESSOR_EXTENSION_RESULT" }, "*");
    }
}

```

```

        if (event.data.type && (event.data.type ==
"CHECK_PRINT_PROCESSOR")) {
            chrome.runtime.sendMessage({ cmd: 'CheckPrintService',
args: {} },
                function (response) {
                    window.postMessage({ type:
"CHECK_PRINT_PROCESSOR_RESULT", connected: response.connected }, "*");
                });
        }
        if (event.data.type && (event.data.type ==
"DOCUMENTS_TO_PRINT")) {
            chrome.runtime.sendMessage({ cmd: 'PrintDocuments', args: {
documents: event.data.documents } },function (response) {});
        }
    }, false);

```

[bg.ks](#)

```

this.baseUrl = "http://localhost:35363/api/PrintService/";

```

```

chrome.runtime.onMessage.addListener(function (request, sender,
sendResponse) {
    switch (request.cmd) {
        case 'CheckPrintService':
            checkPrintService();
            break;

        case 'PrintDocuments':
            printDocuments(request.args);
            break;
    }
}

```

```

function printDocuments(args) {
    console.log('extension handle PrintDocuments');
    var ids = [];
    for (var i = 0, l = args.documents.length; i < l;
++i) {
        ids.push(args.documents[i].id);
    }
    printService.sendDocuments(ids);
    sendResponse({});
}

```

```

PrintService.prototype = {

```

```

sendDocuments: function (ids) { var client = new XMLHttpRequest();
    client.onreadystatechange = handler;
    client.open("POST", this.baseUrl + 'send');
    client.setRequestHeader("Content-Type",
"application/json;charset=UTF-8");
    client.send(JSON.stringify(ids));

    function handler() {
        if (client.readyState === 4) {
            if (client.status === 200) {
                console.log('PrintService.sendDocuments success');
            } else {
                console.log('PrintService.sendDocuments fail');
            }
        }
    }
}
},

```

91. Amaencbkhcpbgpnphohjncnfpfcfpaij TP
from cookies_source to externalNativePortpostMessage_sink
Only coco lines, have to match cookies in bg script

```

port.onMessage.addListener(function (hostMsg) {
    switch (hostMsg.Type) {
        case 'cookies':
            {
                chrome.cookies.getAll({ url: hostMsg.Url },
function (cookies) {
                    var msgToHost = {
                        Type: "cookies",
                        Guid: hostMsg.Guid,
                        Url: hostMsg.Url,
                        Cookies: cookies
                    };
                    var cport = createMessagePort();
                    if (!cport)
                        return;
                    cport.postMessage(msgToHost);
                });
            }
        break;
    }
}

```

92. Amakanfefbcbeienmjelobkmbcafcjph TP
from fetch_source to chrome_storage_local_set_sink

Attacker gets his response from his url

```
chrome.runtime.onMessage.addListener((request, sender, sendResponse) =>
{
    if (request.cmd === 'FETCH_JSON') {
        fetch(request.url + 'meta.json')
            .then(response => {
                if (!response.ok) {
                    throw new Error("Not a Shopify website"); // If
response is not okay, throw an error
                }
                return response.json(); // If response is okay, return
the JSON
            })
            .then(data => sendResponse(data)) // Send data to popup
            .catch(error => sendResponse({ error: error.toString() }));
// Catch any error and send to popup
        return true; // Enables async response
    }
});
```

93. Ambjmopdihmdndfenlecimbfdbgngaea TP

from bg_chrome_runtime_MessageExternal to fetch_resource_sink

Url of attacker to open torrent

```
chrome.runtime.onMessageExternal.addListener(
(message, sender, sendResponse) => {
    switch (message.type) {
        case 'ADD_TORRENT':
            if (message.url && message.url.startsWith('magnet:'))
                withSettings((settings) => {
                    addTorrents(settings, message.url, message.folder)
                })
            else
                withSettings((settings) => {
                    downloadLink(settings, message.url, message.folder)
                })
            break
    }
})
```

```
function addTorrents(settings, link, where) {
    GetTokenNew(settings, function (token, cookie) {
        let params =
```

```

    '?action=add-url&download_dir=0&token=' + token + '&s=' +
encodeURIComponent(link)

    if (where !== ROOT_FOLDER) params += '&path=' + where

    const myHeaders = new Headers({
      Authorization: 'Basic ' + btoa(settings.user + ':' +
settings.password),
    })

```

94. Amcdpedhkddkciknnpjami bpojcbbigf TP

from cs_window_eventListener_message to chrome_storage_local_set_sink

```

const o = "https://notes-pa.clients6.google.com";
window.addEventListener("message", async (a) => {
  if (a.origin === o) {
    const e = a.data;
    if (e.startsWith("Authorization")) {
      const t = (await
chrome.storage.local.get("currentUser")).currentUser;
      if (!t) return;
      chrome.storage.local.get(t).then(({ [t]: s }) => {
        const r = e.slice(13);
        (s === void 0 || s.authToken !== r) && ((s = { authToken: r,
expireAt: Date.now() + 3e6 }), chrome.storage.local.set({ [t]: s }));
      });
    } else e.startsWith("ANXMPl") ? chrome.storage.local.set({
targetVersion: e }) : chrome.runtime.sendMessage(a.data);
  }
});

```

95. Ameeofcdajhecafdkmmobeolonenpdmk FP

from jQuery_ajax_result_source to XMLHttpRequest_post_sink

Ajax hardcoded vals only

```

var mainurl='https://sso.narayanahealth.org/MiddlewareRestServices';
var cbsUrl='http://127.0.0.1:7070';

```

```

chrome.tabs.onUpdated.addListener(function (tabid, tabchgobj, tab) {
  chrome.browserAction.setIcon({ path: "icon.png" });
  try {
    if (task[tab.id] == "undefined" || task[tab.id] == undefined) {
      task[tab.id] = "init";
    }
    if (task[tab.id] == "init") {
      var turl = tab.url;

```

```

tabURL = turl || "";
var tid = tab.id;
var userTypeAndLoggedInUserName = checkUserLogin();

var userType = userTypeAndLoggedInUserName;
if (userType.userType == "user" || userType.userType == "admin")
    if (turl.indexOf(mainurl) == -1 && tab.status == "complete") {
        var AppListDetail = appListDetail(true);
    } else if (tab.status == "complete") {
        var AppListDetail = appListDetail(false);
    }

    if (typeof AppListDetail === "object") {
        AppListDetail = JSON.stringify(AppListDetail);
    }

    var AppList = JSON.parse(AppListDetail);
    for (j = 0; j < AppList.content.length; j++) {
var appId = AppList.content[j].appId;

        var delay = AppList.content[j].loginDelay;

        var xhr3 = new XMLHttpRequest();
        xhr3.open("POST", mainurl +
"/extension/getAppCredsBasedOnSearch", true);
        xhr3.setRequestHeader("Content-type",
"application/x-www-form-urlencoded");
        xhr3.send("appId=" + appId);
        xhr3.onload = function () {

```

96. Amfagfnjpmboaffcefbgcbafmneemlh TP

from storage_local_get_source to JQ_obj_val_sink

Line 914 LocalStoreFindByAttributes = void 0 === t.FindByAttributes || null ==

Get to DOM and SET from DOM

```

chrome.storage.local.get("FindByAttributes", function(t) {
    LocalStoreFindByAttributes = void 0 === t.FindByAttributes || null
== t.FindByAttributes || "" === t.FindByAttributes ?
"id,name,class,aria-label,alt,title,text" : t.FindByAttributes,

$("#fbElementAttriListDispOnly").text($("#fbElementAttriList").val())
})

```



```

    $("#fbElementAttriList").change(function() {
        "" === $("#fbElementAttriList").val() &&
$("#fbElementAttriList").val("id,name,class,aria-label,alt,title,text")
    },
        LocalStoreFindByAttributes = $("#fbElementAttriList").val(),
        $("#fbElementAttriList").attr("type", "hidden"),

$("#fbElementAttriListDispOnly").text(LocalStoreFindByAttributes),
        $("#fbElementAttriListDispOnly").show(),
        $("#ffEditAttributes").show(),
        $("#ffSaveAttributes").hide(),
        chrome.storage.local.set({
            FindByAttributes: LocalStoreFindByAttributes
        }, function() {}),
        addContent(targetEleReference)
    })

```

97. Amkcloakmokikphcbimboccpbbjehkml TP

Hardcoded url

from bg_chrome_runtime_MessageExternal to chrome_storage_sync_set_sink

SET in bg, cs is minified has get to hardcoded url

[bg.js](#)

```

chrome.runtime.onMessageExternal.addListener(function(request, sender,
sendResponse) {
    if (request.apiKey) {
        chrome.storage.sync.set({ apiKey: request.apiKey }, function()
{
            sendResponse({ status: 'success' });
        });
        return true;
    } else {
        sendResponse({ status: 'error', message: 'No API key provided'
});
    }
});

```

[cs.js](#)

```

let p =
`https://app.rapidtextai.com/openai/detailedarticle-v2?gigsixkey=${e}`;

```

Send stored data as form to hardcoded url

```

document.addEventListener("DOMContentLoaded", function () {
    document.getElementById("apiKeySection");

```

```

const e = document.getElementById("promptSection"),
    t = document.getElementById("feature"),
    a = document.getElementById("text"),
    n = document.getElementById("generate"),
    i = document.getElementById("output"),
    o = document.getElementById("languageDropdown"),
    r = document.getElementById("language"),
    s = document.getElementById("copyOutput"),
    l = document.getElementById("authenticate"),
    c = document.getElementById("model"),
    p = new Quill("#output", { theme: "snow" });
chrome.storage.sync.get("apiKey", function (t) {
    t.apiKey && (localStorage.setItem("apiKey", t.apiKey),
localStorage.setItem("apiKeyValid", "true"), (e.style.display =
"block"));
});
const u = localStorage.getItem("apiKey"),
    d = localStorage.getItem("apiKeyValid");
if (u && "true" === d) {
    const e =
`chrome-extension://${chrome.runtime.id}/flutter/index.html?api_key=${e
encodeURIComponent(u)}`;
    window.location.href = e;
}

```

98. Amlielhlgedcjbkilihjhoheammcbgm

from BookmarkTreeNode_source to sendResponseExternal_sink

from bg_chrome_runtime_MessageExternal to BookmarkSearchQuery_sink

HistoryItem_source to sendResponseExternal_sink

from bg_chrome_runtime_MessageExternal to bg_localStorage_setItem_value_sink

from cs_window_eventListener_message to BookmarkSearchQuery_sink

from cs_window_eventListener_message to bg_localStorage_setItem_value_sink

99. Anhplammohnjbihpegggmefkfdjomjkj FP

from XMLHttpRequest_responseText_source to chrome_storage_sync_set_sink

Hardcoded url

```

setInterval(function() {
    let xhr = new XMLHttpRequest();
    xhr.open("GET",
"https://iwfenvteoi.execute-api.us-east-1.amazonaws.com/dev/getRecentPe
tition", false);

```

```

xhr.send();

let result = JSON.parse(xhr.responseText)[0];
if (xhr.status == 200) {
    console.log(result);
    chrome.storage.sync.get('lastPetition', function(res) {
        console.log('Value currently is: ' + res.lastPetition);
        if (result['title'] && result['title'] != res.lastPetition)
        {
            chrome.storage.sync.set({ lastPetition: result['title']
        }, function() {
            console.log('Value is set to: ', result['title']);
            show(result['title'], result['owner'],
result['numSupporters'], result['imgSrc'], result['url']);
        });
    });
}
}, 60000)

```

100. Anipkpgpicbehanfbdgjobhdcamlgnkae FP

from jQuery_ajax_result_source to chrome_storage_sync_set_sink

Bg all 1 line: 2 ajax matches.

Ajax to hardcoded url, attacker only influences id param, response set in. GET will set it first from the hardcoded url then send it back - so only server decides what gets sent back

```

var baseUrl = "https://api.ekamdrive.com:444/",

function GetStorageStatusFromServer() {
    var e = "";
    return (
        (void 0 != _storageStatus || null != _storageStatus) && (e =
        _storageStatus.Id),
        new Promise(function (t, n) {
            $.ajax({
                beforeSend: function (e) {
                    e.setRequestHeader("chrome-token", "s0n@1");
                },
                url: baseUrl + "accounts/GetSettings?id=" + e,
                type: "GET",
                success: function (e) {
                    (_storageStatus = e), storeSetting(), t();
                },
            },

```

```

        error: function (e, t, o) {
            console.log(t, o), n();
        },
    });});});
}

function storeSetting() {
    chrome.storage.sync.set({ settingKey: _storageStatus }, null);
}

```

```

chrome.runtime.onMessage.addListener(function (e, t, n) {
    switch (e.type) {
        case "GetStorageStatus":
            if (e.LinkTried) {
                var o = GetStorageStatusFromServer();
                o.then(
                    function () {
                        n(_storageStatus);
                    },
                    function () {}
                );
            } else n(_storageStatus);
            return !0;
        case "SetStorageStatus":
            (_storageStatus = e.StorageStatus), storeSetting();
            break;
        case "UpdateContextMenuItems":
            registerContextMenuOptions();
    }
}),

```