

# Mark of the Web

**Scenario:** In this exercise you are responsible for protecting [www.match.com](http://www.match.com). You have always been reactive in investigations after the attack was discovered by customers or other employees. Now, you want to be on the offensive and be more proactive and to find the attacker as early as possible in the attack kill chain during the setup and weaponization phases.

**Goal:** Look at your own infrastructure, [www.match.com](http://www.match.com), and see what is normal or legitimate. You will leverage new threat hunting techniques to identify suspicious or malicious infrastructure used by threat actors.

You will have two objectives to accomplish during this investigation.

**Objective 1:** Which data set could be helpful in finding malicious infrastructure?

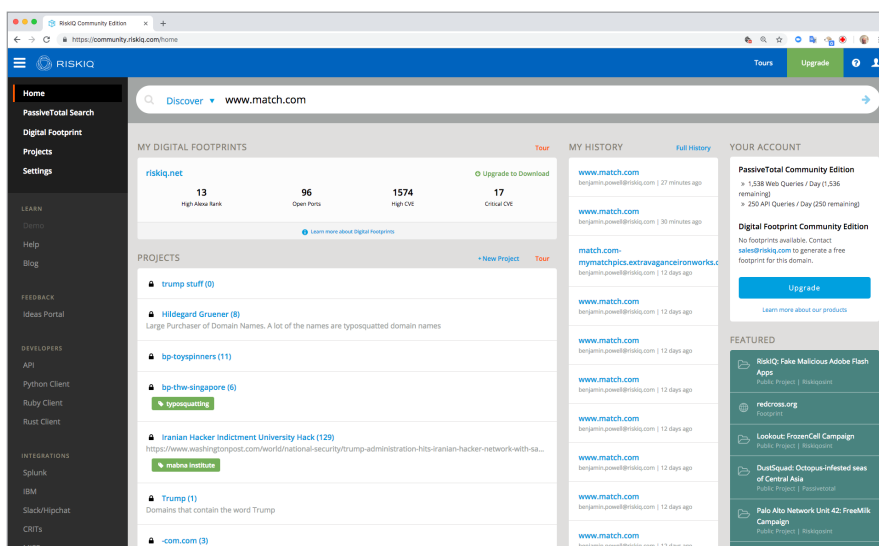
**Objective 2:** Identify common techniques shared amongst results in order to find more malicious content.

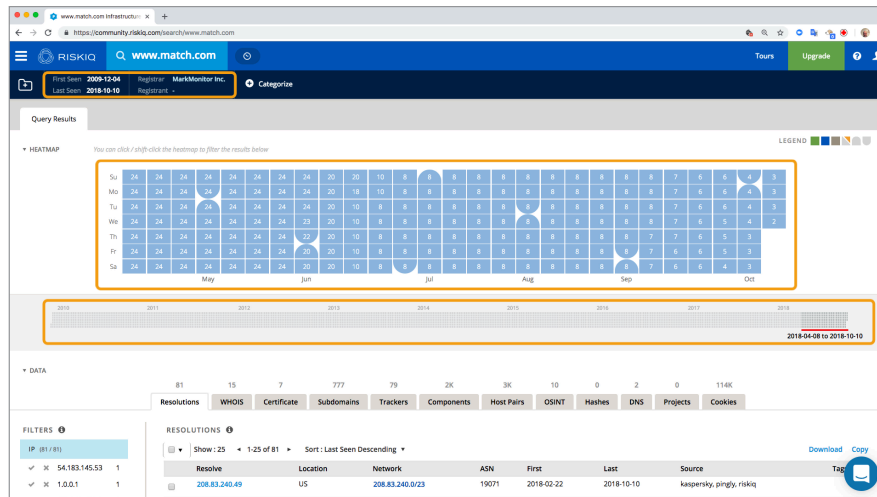
We are going to start with your known good domain, [www.match.com](http://www.match.com), and look for bad things that are linked to it, this will allow us to be more proactive in your threat hunting.

Log into <https://community.riskiq.com> with your web browser.

**STEP 1: Perform a search for [www.match.com](http://www.match.com)**  
<https://community.riskiq.com/search/www.match.com>

In the search window, search for [www.match.com](http://www.match.com)





## Step 2: Review results (Heatmap, data bar, first last seen)

Here are some key characteristics of a legitimate domain.

A legitimate domain will have a large or complete heatmap. For match.com, the heatmap indicates the website has been seen on the internet with a routable IP address for the last six months. Threat actors will sometimes part their domain to a non-routable IP address (127.0.0.1) when there are not using their domain to prevent discovery or investigation. www.match.com has had between 24 different IP address and now has two different IP addresses associated with this domain.

The data map shows RiskIQ has data on www.match.com going back to before 2010. First and Last seen on the top of the screen shows the domain was first seen 12-4-2009 and then whenever it was last seen by RiskIQ.

Look at the resolutions on the bottom of the page.

The screenshot shows the RiskIQ interface for the domain **www.match.com**. At the top, it displays the first and last seen dates: **2009-12-04** and **2018-10-23**. Below this is a heatmap showing the domain's activity over time, with a color scale from 0 to 114K. A data bar below the heatmap shows the domain's activity from 2010 to 2018. The bottom section displays a table of resolutions, with columns for Resolve, Location, Network, ASN, First, Last, and Source. The table shows that the domain has been resolved to various IP addresses, including 208.83.240.49, 208.83.242.26, and 208.83.240.23, all associated with the 19071 ASN.

Resolve	Location	Network	ASN	First	Last	Source	Tags
208.83.240.49	US	208.83.240.0/23	19071	2018-02-22	2018-10-23	kaspersky, pingly, riskiq, virustotal	
208.83.242.49	US	208.83.242.0/23	19071	2018-02-22	2018-10-23	kaspersky, pingly, riskiq, virustotal	
208.83.242.26	US	208.83.242.0/23	19071	2017-02-17	2018-10-21	riskiq	
62.23.26.24	FR	62.23.0.0/16	8220	2015-04-30	2018-10-19	kaspersky, riskiq, virustotal	
62.23.30.26	FR	62.23.0.0/16	8220	2016-12-19	2018-10-15	kaspersky, riskiq, virustotal	
62.23.26.20	FR	62.23.0.0/16	8220	2013-01-28	2018-10-15	kaspersky, riskiq, virustotal	
208.83.240.26	US	208.83.240.0/23	19071	2017-09-23	2018-09-28	riskiq	
212.73.212.91	GB	212.73.192.0/18	3356	2015-04-27	2018-09-13	kaspersky, riskiq, virustotal	
212.73.228.29	GB	212.73.192.0/18	3356	2017-05-15	2018-06-18	kaspersky, riskiq	
212.73.212.117	GB	212.73.192.0/18	3356	2013-04-20	2018-06-18	kaspersky, riskiq	
208.83.240.23	US	208.83.240.0/23	19071	2017-07-24	2018-06-11	kaspersky, riskiq, virustotal	
208.83.240.25	US	208.83.240.0/23	19071	2018-02-22	2018-06-11	riskiq	
72.52.10.14	US	72.52.10.0/24	32787	2018-02-22	2018-06-11	riskiq	
208.83.240.24	US	208.83.240.0/23	19071	2018-02-22	2018-06-11	riskiq	
208.83.240.36	US	208.83.240.0/23	19071	2018-02-22	2018-06-11	riskiq	
208.83.240.27	US	208.83.240.0/23	19071	2018-02-22	2018-06-11	riskiq	

### Step 3: Review the Resolution tab www.match.com

From the resolutions tab, you can see the passive DNS information on the DNS “A” records. The PDNS information shows the domain’s IP history. We can understand the hosting history by reviewing the data below. We can see that www.match.com has been hosted on numerous IP addresses in many different geographic locations, including the US (United States), GB (Great Britain), and FR (France). If you hover over the ASN, it will display additional information. The ASN 19071 is registered to Match.com LLC. This is a good indicator that this is a legitimate domain because threat actors don’t usually get their own ASN assigned to them.

### Step 4: Review the Certificate tab and expand the first result

The screenshot shows the RiskIQ community interface for the domain **www.match.com**. The **Certificate** tab is selected, showing a list of certificates. The first certificate is expanded, displaying the following details:

- SHA-1:** 8324b7c0d31eb215e80f67c0b0e09e798f5e
- Issued:** 2018-05-08
- Expires:** 2019-05-10
- Serial Number:** 12750390807350819872830369927564841
- SSL Version:** 3
- Common Name:** www.match.com (subject), DigiCert SHA2 Extended Validation Server CA (issuer)
- Alternative Names:** match.com (subject), www.match.com (subject)
- Organization Name:** DigiCert Inc (issuer)
- Organization Name:** MATCH GROUP, LLC (subject)
- Organization Unit:** MATCH GROUP, LLC (subject), www.digicert.com (issuer)
- Street Address:**
- Locality:** Dallas (subject)
- State/Province:** Texas (subject)
- Country:** US (subject)

Below the certificate details, there is a table showing the history of the certificate:

SHA-1	First Seen	Last Seen	Infrastructure
8324b7c0d31eb215e80f67c0b0e09e798f5e	2018-05-23	2018-05-23	N/A
bae0501db0af6ca055fe5a1c8f3b4e3a1b0fe	2015-06-01	2015-06-01	N/A
093d93f1d958f6e98f7a43d99961c25aa7c4da8	2017-05-09	2018-05-21	N/A

We see the SSL certificate issued by www.digicert.com which is a paid certificate for Match Group, LLC. If you see a paid certificate, this can sometimes be another indicator it is a legitimate domain. However, we *have* seen threat actors purchase certificates in the past.

## Step 5: Components tab

Hostname	First	Last	Category	Value	Tags
www.match.com	2015-11-21	2018-10-23	Tracking Pixel	Appexus	
www.match.com	2018-04-25	2018-10-23	Framework	Express	
www.match.com	2012-08-24	2018-10-23	Ad Network	Criteo	
www.match.com	2015-11-20	2018-10-23	Tracking Pixel	Yahoo Advertising	
www.match.com	2011-09-11	2018-10-23	Analytics Service	Google Analytics (deprecated)	
www.match.com	2017-01-04	2018-10-23	Framework	Handbars	
www.match.com	2017-12-28	2018-10-23	Analytics Service	BlueKai	
www.match.com	2011-09-22	2018-10-23	Advertising	AdL Advertising Inc.	
www.match.com	2011-09-22	2018-10-23	Ad Exchange	Facebook	
www.match.com	2015-11-20	2018-10-23	Tracking Pixel	s.amazon-adsystem.com	
www.match.com	2016-07-01	2018-10-23	Tracking Pixel	Facebook Pixel	
www.match.com	2012-07-27	2018-10-23	Publisher	Twitter Ads	
www.match.com	2011-09-22	2018-10-23	Ad Exchange	Google Ads	
www.match.com	2011-09-22	2018-10-23	Ad Exchange	Google Ads - DoubleClick	
www.match.com	2018-03-01	2018-10-23	Analytics Service	Sift Science	
www.match.com	2015-11-22	2018-10-23	Ad Network	Taboola	

There are over 1000 components listed. This indicates a lot of infrastructure and multiple types of underlying architecture and applications. Threat actors generally only setup the bare minimum to perform their attacks. It costs money to setup, maintain, and support the servers and infrastructure. We generally see threat actors only setting up the fewest components necessary when perform attacks.

## Step 6: The Proactive Investigation begins

Go to the Trackers tab and look at the results.

Now we will begin to be proactive in our threat hunting to identify threat actors attacking the domain www.match.com.

Hostname	First	Last	Type	Value	Tags
www.match.com	2011-12-28	2018-10-10	GoogleAnalyticsAccountNumber	ua-16391953	
www.match.com	2017-12-28	2018-10-10	BlueKaiSteld	24667	
www.match.com	2016-09-20	2018-10-10	TwitterId	uwt_ji	
www.match.com	2017-12-12	2018-10-10	FacebookPixelId	621173494639628	
www.match.com	2016-06-07	2018-10-10	FacebookId	621173494639628	
www.match.com	2011-12-28	2018-10-10	GoogleAnalyticsTrackingId	ua-16391953-1	
www.match.com	2016-06-07	2018-10-10	InstagramId	match	
www.match.com	2018-03-28	2018-10-10	SiftScienceAccountId	a951ed834c	
www.match.com	2012-05-21	2018-10-10	TwitterId	match	
www.match.com	2016-09-20	2018-10-10	TwitterId	uwt_ji	
www.match.com	2018-10-01	2018-10-10	InstagramId	adventuresofanfoodie	
www.match.com	2018-10-01	2018-10-10	InstagramId	amymerleblack	
www.match.com	2018-10-01	2018-10-10	InstagramId	theschwalb	
www.match.com	2018-10-01	2018-10-10	InstagramId	beautifulelegantblog	
www.match.com	2018-10-01	2018-10-10	InstagramId	ricandparty	
www.match.com	2018-10-01	2018-10-10	InstagramId	zarahawalt	

In the screen shot above, you see the trackers that RiskIQ has identified that are being served and used by www.match.com. When a threat actor phishes or attacks your domain, they will sometimes duplicate your real website. The duplicated domain might also contain your legitimate trackers.

## Step 7: Pivoting on trackers

Now we are going to perform a few pivot queries on some trackers to help surface threat actors that have duplicated the domain `www.match.com`.

Right click on the value for the `GoogleAnalyticsAccountNumber` `ua-16351953` and open it in a new tab. We will come back to this tab in a later section.

Community.riskiq.com query:

<https://community.riskiq.com/search/trackers/GoogleAnalyticsAccountNumber/ua-16351953>

GoogleAnalyticsAccountNumber	ua-16351953	Open Link in New Tab Open Link in New Window Open Link in Incognito Window Save Link As... Copy Link Address Copy Search Google for "ua-16351953" Print... Blockade FatBeagle Google Translate Inspect
InstagramId	beaut	
InstagramId	apres	
InstagramId	micha	
InstagramId	zarah	
InstagramId	thelac	
InstagramId	mees	

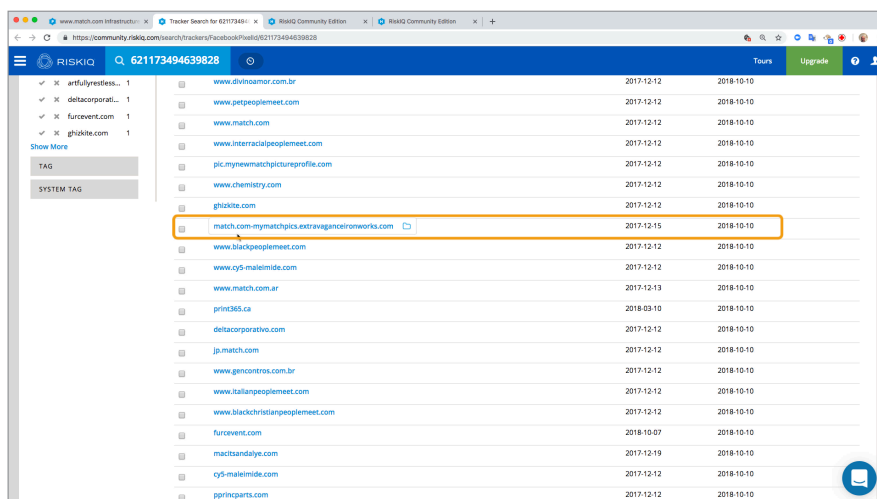
Right click on the value for the `FacebookPixelId` `621173494639828` and open it in a new tab.

Community.riskiq.com query:

<https://community.riskiq.com/search/trackers/FacebookPixelId/621173494639828>

FacebookId	621173494639828	Open Link in New Tab Open Link in New Window Open Link in Incognito Window Save Link As... Copy Link Address Copy Search Google for "621173494639828" Print... Blockade FatBeagle Google Translate Inspect Speech Services
SiftScienceAccountId	a951ed834c	
TwitterId	uwt.js	
BlueKaiSiteId	24667	
TwitterId	match	
InstagramId	adventuresofany	
InstagramId	amymarieblack	
GoogleAnalyticsAccountNumber	ua-16351953	

Click on the tab for the Facebook tracker.



Domain	First Seen	Last Seen
www.diveinsport.com.br	2017-12-12	2018-10-10
www.petpeoplemeet.com	2017-12-12	2018-10-10
www.petpeoplemeet.com	2017-12-12	2018-10-10
www.petpeoplemeet.com	2017-12-12	2018-10-10
www.petpeoplemeet.com	2017-12-12	2018-10-10
pit.mynewmatchpictureprofile.com	2017-12-12	2018-10-10
www.chemistry.com	2017-12-12	2018-10-10
ghickla.com	2017-12-12	2018-10-10
match.com-mymatchpics.extravaganceironworks.com	2017-12-15	2018-10-10
www.blackpeoplemeet.com	2017-12-12	2018-10-10
www.cy5-maleimide.com	2017-12-12	2018-10-10
www.match.com.ar	2017-12-13	2018-10-10
print365.ca	2018-03-10	2018-10-10
deltacorporative.com	2017-12-12	2018-10-10
jp.match.com	2017-12-12	2018-10-10
www.gencontrol.com.br	2017-12-12	2018-10-10
www.italianpeoplemeet.com	2017-12-12	2018-10-10
www.blackchristianpeoplemeet.com	2017-12-12	2018-10-10
funcevent.com	2018-10-07	2018-10-10
macstodaye.com	2017-12-19	2018-10-10
cy5-maleimide.com	2017-12-12	2018-10-10
pprincgams.com	2017-12-12	2018-10-10

## Step 8: Review FacebookPixelid tracker

All of the results shown indicated the same FacebookPixelid 62117349639828 is being served for all of the domains listed.

Threat actors will sometimes use the legitimate domain names in their attacks. Match.com-mymatchpics.extravaganceironworks.com does not appear to be legitimate. It appears to be typosquatting www.match.com.

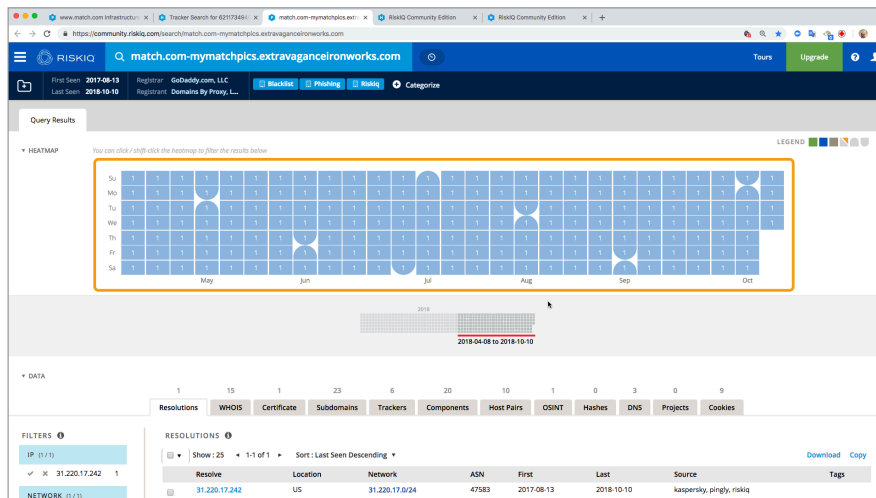
## Step 9: Investigate the domain mymatchpics.extravaganceironworks.com

To further investigate this domain, right click on the domain match.com-mymatchpics.extravaganceironworks.com and open it in a new tab.

Community.riskiq.com query:

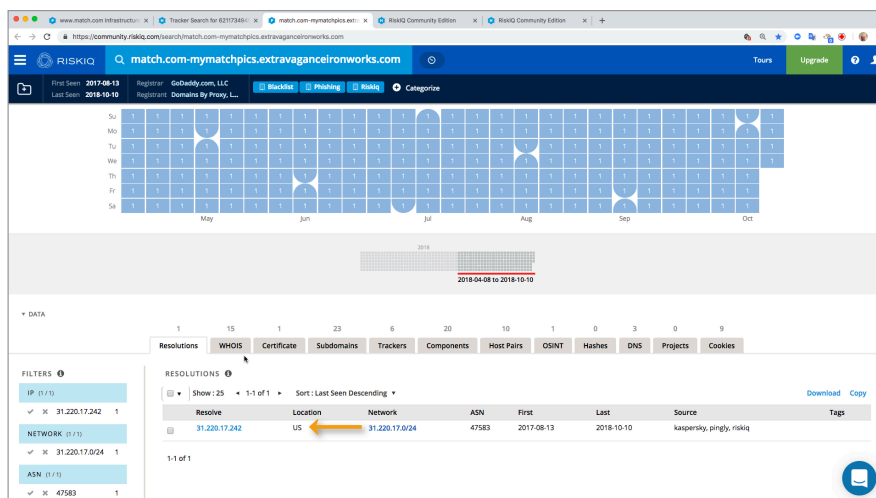
<https://community.riskiq.com/search/match.com-mymatchpics.extravaganceironworks.com>

## Step 9A: Review Heatmap, databar, first and last seen



In the screen shot above, we see a complete heatmap with the same IP address seen for the last six months. No non-routable IP address has been seen. So far, this looks legitimate.

Just below the heatmap is the data bar. The data bar shows that RiskIQ has data going back to August 13, 2017. The top left of the screenshot shows the first and last seen dates for this domain. This could also indicate a legitimate domain.



The IP's location information shows that is based in the US. The IP address has been the same one for the entire time it has been on the internet. This also is an indication of a legitimate domain.

Examine the certificate tab now.

The screenshot shows the RiskIQ interface with the domain `match.com-mymatchpics.extravaganceironworks.com` selected. The 'Certificate' tab is active, displaying details for a certificate issued on 2018-01-21 and expiring on 2018-04-22. The issuer is cPanel, Inc. Certification Authority (Issuer), and the subject is match.com-mymatchpics.extravaganceironworks.com (subject). The organization name is cPanel, Inc. (Issuer), which is highlighted with an orange arrow.

The certificate that is being utilized by this domain was issued by cPanel, Inc. This is a paid certificate usually given when someone is doing their hosting with a provider. Since this is a paid certificate, it also seems to give credibility that this is a legitimate domain.

Review the components.

The screenshot shows the RiskIQ interface with the domain `match.com-mymatchpics.extravaganceironworks.com` selected. The 'Components' tab is active, displaying a list of components used by the domain. The components include Tracking Pixel, Server, CMS, Analytics Service, Ad Exchange, Apache, Facebook, WordPress, Debian, Joomla!, and MarkOfTheWeb. The MarkOfTheWeb component is highlighted in blue.

We see in the components many familiar things listed from Debian, Joomla, Apache, JQuery, and WordPress. It looks like a full stack of web infrastructure is being used by this domain, which appears legitimate. However, I do see something that could be suspicious in the list of components: MarkOfTheWeb. We will investigate this component later.



## Step 10: Review Trackers

Click on the tracker tab.

The screenshot shows the RiskIQ interface for the domain `match.com-mymatchpics.extravaganceironworks.com`. The 'Trackers' tab is selected, displaying a table of trackers. The table has columns for Hostname, First, Last, Type, Value, and Tags. Two trackers are highlighted with orange arrows:

Hostname	First	Last	Type	Value	Tags
match.com-mymatchpics.extravaganceironworks.com	2018-07-27	2018-10-10	MarkOfTheWebSourceUrl	<a href="http://www.match.com/login/index/">http://www.match.com/login/index/</a>	
match.com-mymatchpics.extravaganceironworks.com	2017-12-15	2018-10-10	FacebookPixelid	621173494639828	
match.com-mymatchpics.extravaganceironworks.com	2017-09-27	2018-10-10	Facebookid	621173494639828	
match.com-mymatchpics.extravaganceironworks.com	2018-08-01	2018-10-10	MarkOfTheWebSourceHost	www.match.com	
match.com-mymatchpics.extravaganceironworks.com	2017-09-27	2018-10-10	GoogleAnalyticsTrackingId	ua-16351953-1	
match.com-mymatchpics.extravaganceironworks.com	2017-09-27	2018-10-10	GoogleAnalyticsAccountNumber	ua-16351953	

In the screenshot above we see the FaceBookPixelid and the GoogleAnalyticsAccountNumber from `www.match.com`. This domain is serving these trackers to visitors to this domain, just like they do `www.match.com`.

The screenshot shows the RiskIQ interface for the domain `match.com-mymatchpics.extravaganceironworks.com`. The 'Trackers' tab is selected, displaying a table of trackers. The table has columns for Hostname, First, Last, Type, Value, and Tags. Two trackers are highlighted with orange boxes:

Hostname	First	Last	Type	Value	Tags
match.com-mymatchpics.extravaganceironworks.com	2018-07-27	2018-10-10	MarkOfTheWebSourceUrl	<a href="http://www.match.com/login/index/">http://www.match.com/login/index/</a>	
match.com-mymatchpics.extravaganceironworks.com	2017-12-15	2018-10-10	FacebookPixelid	621173494639828	
match.com-mymatchpics.extravaganceironworks.com	2017-09-27	2018-10-10	Facebookid	621173494639828	
match.com-mymatchpics.extravaganceironworks.com	2018-08-01	2018-10-10	MarkOfTheWebSourceHost	www.match.com	
match.com-mymatchpics.extravaganceironworks.com	2017-09-27	2018-10-10	GoogleAnalyticsTrackingId	ua-16351953-1	
match.com-mymatchpics.extravaganceironworks.com	2017-09-27	2018-10-10	GoogleAnalyticsAccountNumber	ua-16351953	

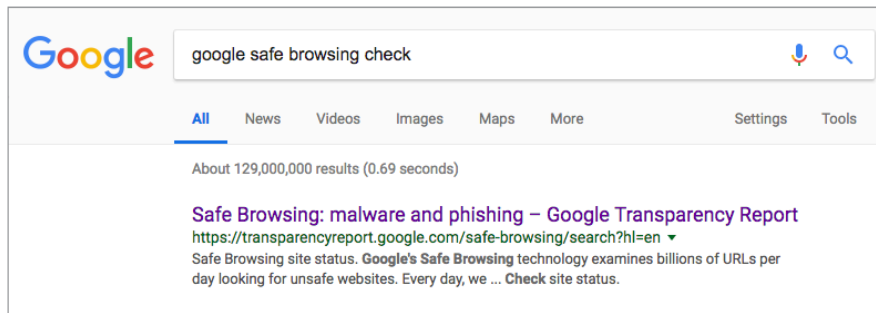
In the screenshot above we see `MarkOfTheWebSourceUrl` and `MarkOfTheWebSourceHost`. When someone saves a website using a Microsoft web browser it creates some watermarks to identify where the original website was copied from. For example, `mymatchpics.extravaganceironworks.com` website is a copy from `http://www.match.com/login/index/`. This is very suspicious, and this type of tracker can easily identify domain infringement or potential phishing associated with the domain that was copied. Now that we suspect that the domain `mymatchpics.extravaganceironworks.com` could be malicious, we need to investigate it safely without visiting the website.

## Step 11: Verify if the domain is legitimate with Google Safe Browsing

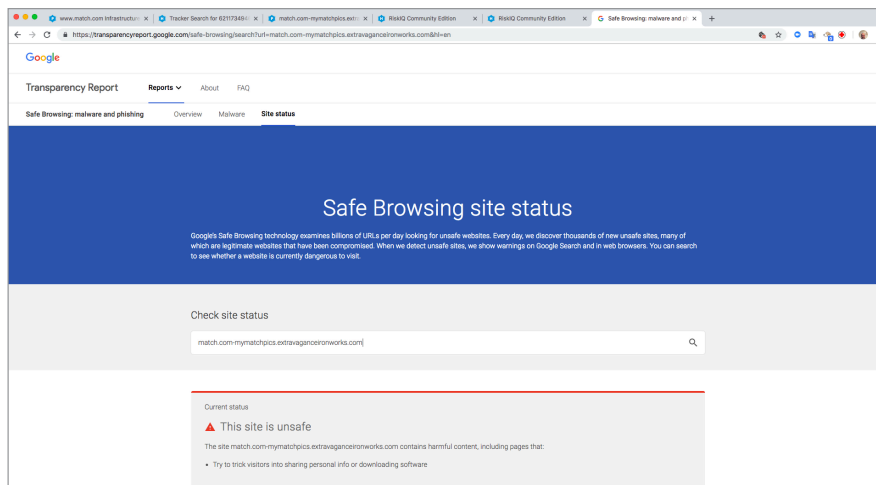
We can check to see if Google has classified this domain as unsafe without having to visit the threat actor's domain mymatchpics.extravaganceironworks.com.

In a new tab, search for “Google Safe Browsing check” and click on the result for “Safe Browsing: malware and phishing – Google Transparency Report”

<https://transparencyreport.google.com/safe-browsing/search?hl=en>



In the check site status, search for the domain match.com-mymatchpics.extravaganceironworks.com.



The results indicated that match.com-mymatchpics.extravaganceironworks.com is unsafe due to the website tricking visitors into sharing personal info or downloading software.

Now we have confirmed the domain is unsafe. We have identified a domain that is coping, the legitimate trackers and serving them on their own domain.

**Objective 1 Complete:** Which data set could be helpful in finding malicious infrastructure?

We have learned that we can utilize many different data sets to surface suspicious infrastructure. We learned that threat actors that duplicate websites also duplicate legitimate trackers. Searching on legitimate trackers can surface suspicious or malicious domains that are also utilizing those same trackers. In the exercise, we searched on the FacebookPixelid and the GoogleAnalyticsAccountNumber used by [www.match.com](http://www.match.com). We identified a domain [match.com-mymatchpics.extravaganceironworks.com](http://match.com-mymatchpics.extravaganceironworks.com) that appeared to be typosquatting the legitimate domain [www.match.com](http://www.match.com).

While investigating the domain [match.com-mymatchpics.extravaganceironworks.com](http://match.com-mymatchpics.extravaganceironworks.com) it appeared to be legitimate with a long history of utilizing the same IP address from the United States and had a full web application stack. We identified a single web component that we were not familiar with MarkOfTheWeb. While investigating trackers we identified that the domain [match.com-mymatchpics.extravaganceironworks.com](http://match.com-mymatchpics.extravaganceironworks.com) had copied its website from [www.match.com](http://www.match.com). Using Google Safe Browsing check we confirmed our suspicions that [match.com-mymatchpics.extravaganceironworks.com](http://match.com-mymatchpics.extravaganceironworks.com) was malicious tricking users into sharing personal information and downloading software.

**Step 12: Identify if anyone else is attacking www.match.com**

**Objective 2:** Identify common techniques shared amongst results in order to find more malicious content.

Keeping objective two in mind, if you search on the MarkOfTheWebSourceHost for [www.match.com](http://www.match.com), this will identify all other websites that are copies of [www.match.com](http://www.match.com).

Hostname	First Seen	Last Seen	Tags
<a href="http://match.com-mymatchpics.extravaganceironworks.com">match.com-mymatchpics.extravaganceironworks.com</a>	2018-08-01	2018-10-10	
<a href="http://deltacorporative.com">deltacorporative.com</a>	2018-08-01	2018-10-10	
<a href="http://match.com-mynewphotos.extravaganceironworks.com">match.com-mynewphotos.extravaganceironworks.com</a>	2018-08-03	2018-10-09	
<a href="http://match.com-mypictures.extravaganceironworks.com">match.com-mypictures.extravaganceironworks.com</a>	2018-08-02	2018-10-09	
<a href="http://match.com-mypictures.lyricmantra.com">match.com-mypictures.lyricmantra.com</a>	2018-08-03	2018-10-08	
<a href="http://match.com-photos.electrocardiogramonlinea.com">match.com-photos.electrocardiogramonlinea.com</a>	2018-08-04	2018-10-06	
<a href="http://www.match.com-mypictures.lyricmantra.com">www.match.com-mypictures.lyricmantra.com</a>	2018-08-02	2018-10-04	
<a href="http://matchingom.ga">matchingom.ga</a>	2018-08-24	2018-09-07	
<a href="http://match.com-mypictures.abukubuk.org">match.com-mypictures.abukubuk.org</a>	2018-08-18	2018-08-18	
<a href="http://match.com-mypictures.ciespider2005.org">match.com-mypictures.ciespider2005.org</a>	2018-08-01	2018-08-14	
<a href="http://www.needlines.com">www.needlines.com</a>	2018-08-04	2018-08-05	
<a href="http://www.petsbarntaining.com">www.petsbarntaining.com</a>	2018-08-02	2018-08-02	

In the screenshot above we have now identified 12 other domains that are copies of [www.match.com](http://www.match.com). All of the websites should be investigated because they are all utilizing a copy of the legitimate website [www.match.com](http://www.match.com) and do not appear to be affiliated with them.

If you bookmark the URL you can easily access this query at any time in the future.

<https://community.riskiq.com/search/trackers/MarkOfTheWebSourceHost/www.match.com>

**Objective 2 Complete:** Identify common techniques shared amongst results in order to find more malicious content.

Utilizing the MarkOfTheWeb tracker you can identify all domains that are copied from the identified source. Below are a few interesting domains that are utilizing MarkOfTheWeb components and trackers.

To help you in finding interesting domains to investigate, below is a list to get you started.

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## All Domains that are utilizing MarkOfTheWeb.

<https://community.riskiq.com/search/components/Content/MarkOfTheWeb>

## Targeted Domains That Contain MarkOfTheWeb Data

### MarkOfTheWebSourceHost

#### **www.netflix.com**

<https://community.riskiq.com/search/trackers/MarkOfTheWebSourceHost/www.netflix.com>

#### **get.uber.com**

<https://community.riskiq.com/search/trackers/MarkOfTheWebSourceHost/get.uber.com>

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