How pre-teens using metadata found a whistlebl...

eer in two hours. location metadata. All but one team tracked down the home address of the whistleblower, and the winning team took just one hou



whistleblower in two hours 



ent agencies for the past year, the t lian gove alia's 2015 mete



g the AFP to do meta em. They don't need a warrant, and they don't need to warn you. It's jus ible and abstract, it can be hard to grasp what this means for your privacy, which is why Melbourne University co-orga

lyst who is told to identify and arrest the employee. "May I remind you the mines in Australia are all critical infrastructure, and those leaked docs cannot get into the wrong hands," your

searched for in the scenario, but they are of the same kinds of

lose for a step-ba



## ed: Snitch Hunt

ep One: Search Google for suspicious : a scenario is about an employee at 'Minecorp' em a can sift through four sets of information.

kibana 🛚	scover Visualize Dashboard Settings	III O Last 2 years
search_query="minewatch"		
logstash-google_query_log-* * Selected Fields	¢	52 hits December 12th 2014, 14:52:26.218 - December 12th 2016, 14:52:26.218 - by week
? _source Available Fields	2	· · · · · · · · · · · · · · · · · · ·
Popular t search_query t source_ip_address t user_id	0.5- 0 2015-01-01 2015-04-0	1 2015-07-01 2015-10-01 2016-01-01 2016-01-01 2016-07-01 2016-01-01 Ctimestamp per week
@ @timestamp     # @version	Time 🗸	_source
t_ld t_index #_score t_type t_address	▶ November 26th 2016, 18:20:40.000	search_query: minewatch @version: 1 @timestamp: November 26th 2016, 18:20:40.000 user_id: 4fd/809e-252c-4e6f-bbf9-55eea3e7b8cl full_name: - username: - email: - address: - job_title: - company_name: - source_tp_address: 139.251.61.154 source_top_port: 55687 user_agent: Mozil la/S.0 (Windows; U; Windows 98) Applewebkit/535.33.4 (WHTML, like Gecko) Version/4.0 Safari/535.33.4 _id: AVjUbAnbMAOChXL39xaD _type: logs _index: gstash-google_query_log-2016.11 _score:
t company_name t company_name t email t full_name t job_title	<ul> <li>November 7th 2016, 10:20:23.000</li> </ul>	<pre>search_guery: minewatch newspaper @version: 1 @timestamp: November 7th 2016, 10:20:23.000 user_id: 02574024-5a46-4eae-af43-4cf2c8b06672 full_name: - username: devinmosley email: devinnosley@gmail.com address: - job_title: - company_name: - source_ip_address: 62.222.216.148 source_top_port: 7532 user_agent: Opera/8.73.(windows 95; s1-S1) Presto/2.9.174 Version/11.00 _id: AVjUb88WAAChXL39zDz _type: logs _index: logs tash-google_query_log-2016.11 _score:</pre>
f source_tcp_port f user_agent f username	▶ November 7th 2016, 09:56:40.000	<pre>search_guery: #inewatch newspaper @varsion: 1 @timestamp: November 7th 2016, 09:56:40.000 user_id: 02574024-546-4eae-af43-4cf2c8b06672 full_name: - username: devinmosley email: devinmosley@gmail.com address: - job_title: - company_name: - source_ip_address: 126.121.162.23 source_top_port: 52589 user_agent: Opera/8.73.(Windows 95; s1-SI) Presto/2.9.174 Version/11.00 _id: Avjubs9aMAOchxi tabh-google_query_log-2016.11 _score:</pre>
	▶ october 16th 2016, 10:03:07.000	<pre>search_query: Binewatch newspaper @version: 1 @timestamp: October 16th 2016, 10:03:07.000 user_id: 85c7fb9a-c954-4db9-bdcc-5d73e19242b1 full_name: - username: - email: - address: - job_title: - company_name: - source_ip_eddress: 187.108.67.61 source_tep_port: 15184 user_agent: Opers/8.16.(Windows NT 6.1; it-IT) Presto/2.9.175 Version/11.00 _id: AVjUbBCTMAOChXL39ywl _type: logs _index: logstash-google_query_l og-2016.10 _score:</pre>
	<ul> <li>October 7th 2016, 11:47:10.000</li> </ul>	search_query: minewatch @version: 1 @timestamp: October 7th 2016, 11:47:10.000 user_id: 6982ffa3-1bcc-4f05-8b35-f4aefb2793e6 full_name: -

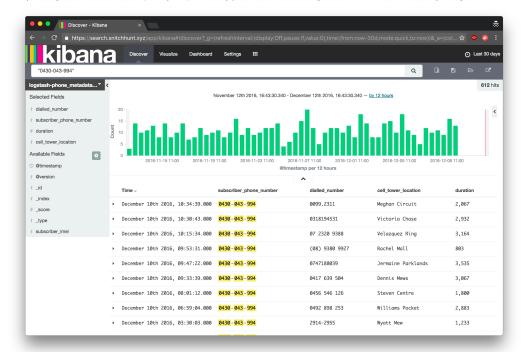
Search query metadata.							
HickforPhysics: Robin Dobrty							
Yuo can find the IP address of anyone who has associated for leg (or "MemWatch" (the news weaking) or "Anna Dapast" (the name of the journalist who wrote the new). Through a combination of searches you can market the dots to far field the Pademass.							
Step Two: Link the IP address with an email addr							
Once you have the IP you can also search the database for what email address has been using that IP.							
kibana	Discover	r Visualize	Dashboard	Settings	# O Last 2 year		
source_ip_address=40.37.47.243					Q & B & C		
logstash-email_metadata_log-*	^ <				4,184 hit		
.marvel-es-1-*					December 12th 2014, 14:50:51.172 - December 12th 2016, 14:50:51.172 - <u>by week</u>		
logstash-google_query_log-*							
logstash-phone_metadata_log-*		200 -			liter and the second		
logstash-phone_subscriber_info-*	Count	200					
∧ Selected Fields	ů	100					
? source		0					
	0	2015-0	1-01	2015-04-0	n 2015-07-01 2015-10-01 2016-01-01 2016-04-01 2016-07-01 2016-10-01 @timestamp.per.week		
Popular					A		
t email recipient		Time –			_source		
t email_sender	•	December 1	10th 2016, 09:2	6:16.000	source_ip_address: 40.37.47.243 @version: 1 @timestamp: December 10th 2016, 09:26:16.000 source_tcp_port: 10310 email_sender: taylor86@smalllak		
<ul> <li>@timestamp</li> </ul>					e.com.au email_recipient: michaeldavis@delgado.org.au email_subject: Susan B. Russell size: 5,343 _id: AVjUdAEjMAOChXL3-Oto _type: logs _index:		
t @version					stash-email_metadata_log-2016.12 _score:		
t_id		December 1	10th 2016, 08:1	6:39.000			
t _index	·	becomber a			source_p_address: 40.37.47.243 @version: 1 @timestamp: December 10th 2016, 08:16:39.000 source_top_port: 61147 email_sender: daniellemunoz@smal llake.com.au email recipient: tinapruitt@rivas.net email subject: fixed OM estimate for 2000 & 1999 peakers size: 8,375 id: AVjUc&StWAOChXL3-Hni		
# _score					rate coming the state of the st		
t_type					offer togs framework togstern marked and the framework of the second		
t email_subject		December 1	10th 2016, 08:1	3:10.000	source ip address: 40.37.47.243 @version: 1 @timestamp: December 10th 2016, 08:13:10.000 source top port: 36609 email sender: melvin69@smalllak		
# size					e.com.au emmil recipient: dmoore@donovan.com.au emmil subject: Tim Hiezenrader size: 4,759 id: Avjuc&wnMAOChXL3-HuD type: logs index: logsta		
t source_ip_address					sh-email_metadata_log-2016.12 score:		
i source_ip_audress							
Quick Count () ( 500 /500 records )	•	December 1	10th 2016, 07:0	2:55.000	source_ip_address: 40.37.47.243 @version: 1 @timestamp: December 10th 2016, 07:02:55.000 source_tcp_port: 22215 email_sender: rhondareynolds@sma		
40.37.47.243 Q 100.03	1 Q 9%				lllake.com.au email_recipient: callahansheila@peterson-collins.edu.au email_subject: Stan to meet w/GPG U.W. Solicitors-5C2 (G.Taylor) size: 4,706		
Visualize (1 warning <b>A</b> )					_id: AVjUC_VJMAOChXL3-NRE _type: logs _index: logstash-email_metadata_log-2016.12 _score:		
t source_tcp_port	+	December 1	10th 2016, 06:4	7:43.000	source_ip_address: 40.37.47.243 @version: 1 @timestamp: December 10th 2016, 06:47:43.000 source_top_port: 27791 email_sender: martindenise@small		
					lake.com.au email_recipient: montoyamatthew@miller.com.au email_subject: RE: Post Interview Meeting - Decision Making Meeting size: 1,725 _id: AVj UdAJ4MAOChXL3-O4Z _type: logs _index: logstash-email_metadata.log-2016.12 _secret		

b December 10th 2016, 06:47:34.000 source\_ip\_address: 40.37.47.243 @version: 1 @timestamp: December 10th 2016, 06:47:34.000 source\_tcp\_port: 30717 email\_sender: kevin430smalllake.

Email metadata. HackforPrivacy: Robin Doberty

Step Three: Use email address to access address and phone

you know the email, you can search the telcos' customer list for a phone number at mail and phone metadata logs also contain information about who has emailed who



HackforPrivacy: Robin Do

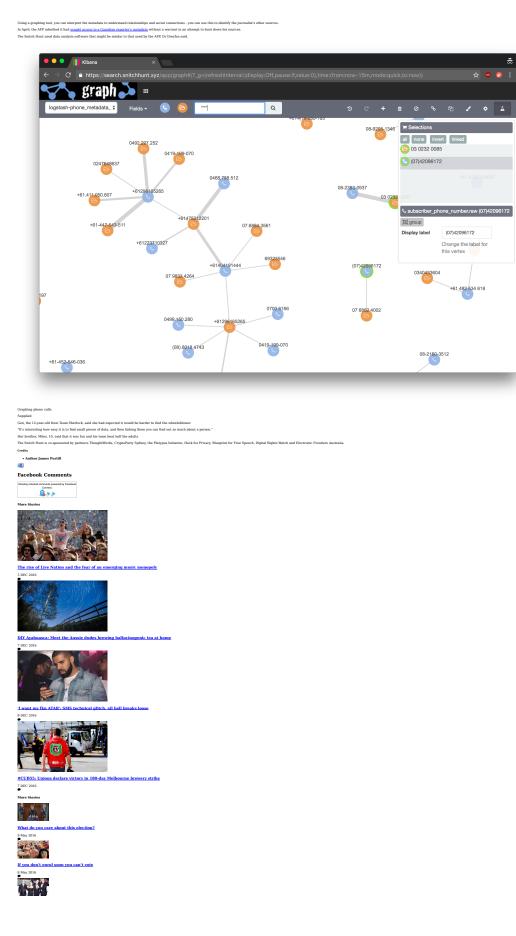
Step Four: Use phone number to get a recent location The phone metadata also gives a record of where the suspected whistl

You can use this to predict where they will be, and then intercept them to make an arrest.

Métadata isn't only about knowing a person's past movements, it also about predicting their future activities. That's because most of There's been research that's shown nearly half of most people's everyday activities follow a pretty regular pattern," Dr Dreyfus said.

fou go to your university class every Tuesday or you go to your job every Monday morning or Mum's house for diamer every Saturday a graphic illustration of how this works, the US's armed drone program <u>identifies targets through their metadata</u>. Poople are killed c tion data points of more than a million people. It found that fo acy said 'We kill people based on metadata'," Dr Dreyfus said. tion points were all you needed to uniquely identify 95 per cent of p

Step Five: Find out who else has contacted the journalist



How pre-teens using metadata found a whistlebl...

