

Email Address vs User Activity

24 June 2009

Derived From: NSA/CSSM 1-52

Declassify On: 20291123

DERIVED FROM: NSA/CSSM 1-52

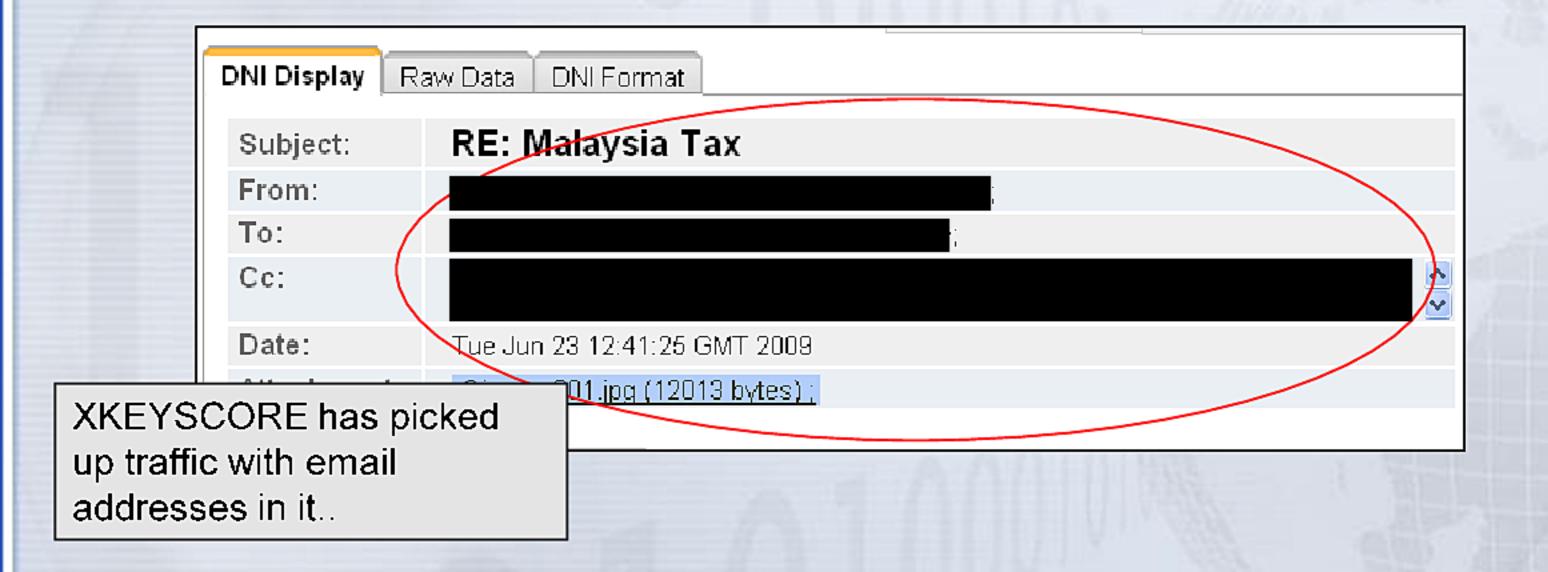
Email Addresses



- The Email Address search allows you to search on:
 - Full Email Address
 - Do not search on/wildcard JUST the username, always include a specific domain
 - Foreign-hosted domains (e.g. @cnc.cn)
- The query searches within bodies of emails, webpages and documents for....(you guessed it)...Email Addresses
 - To, From, CC, BCC lines..
 - "Contact Us" pages on websites
 - Signature blocks

Email Address

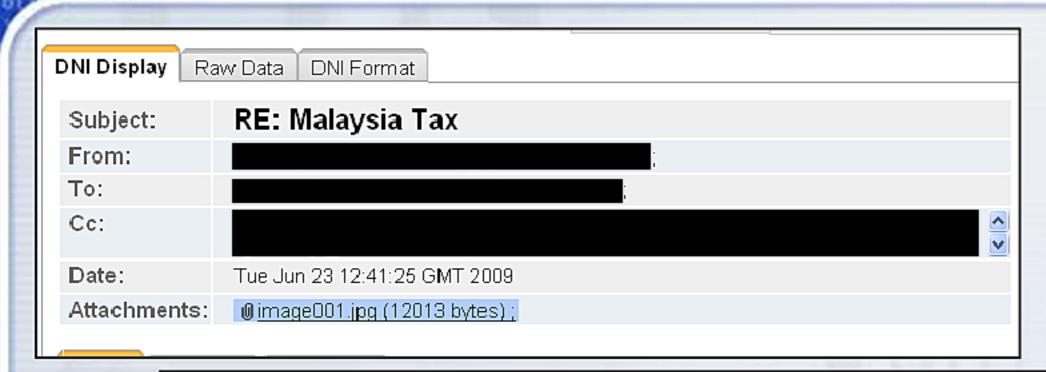
Email Addresses are found in many parts of traffic

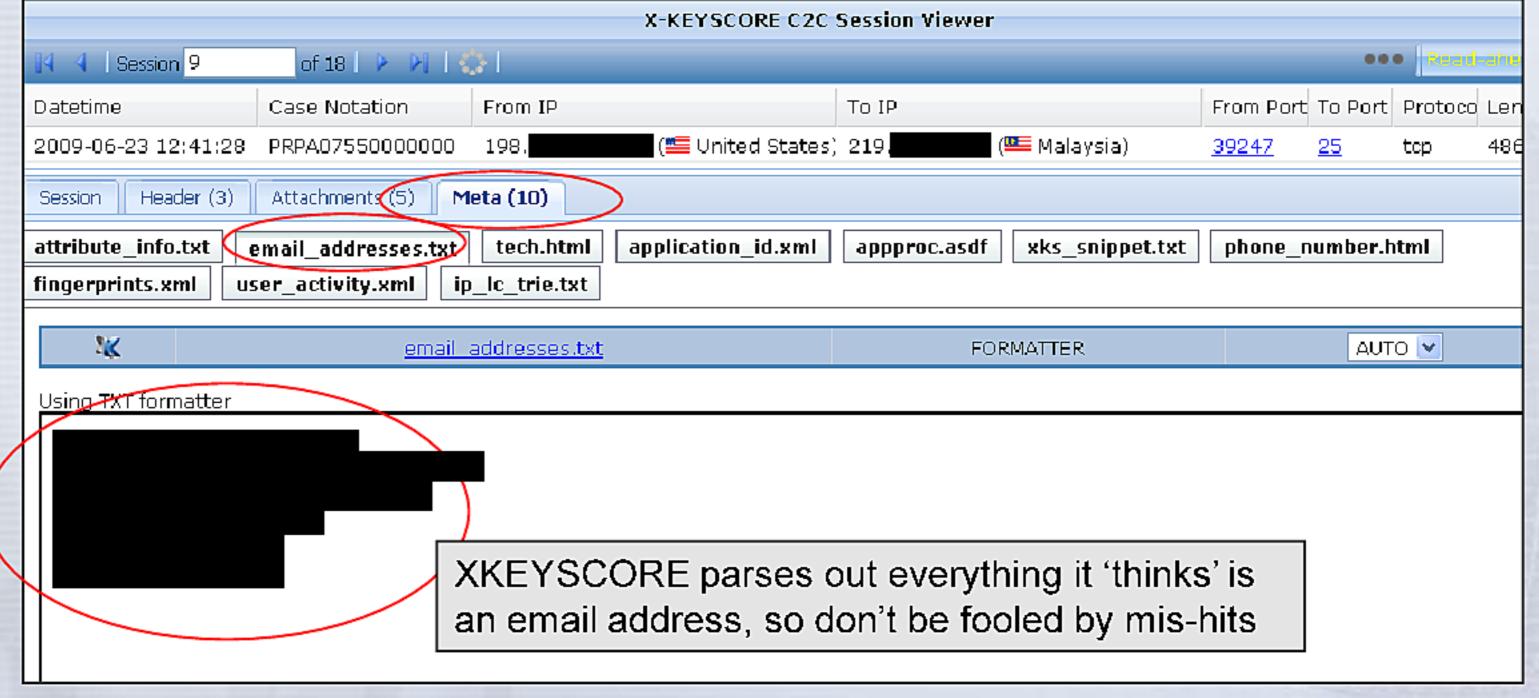


TOP SECRET//COMINT//REL TO USA, AUS, CAN, GBR, NZL

Email Address







Creating Email Address Queries



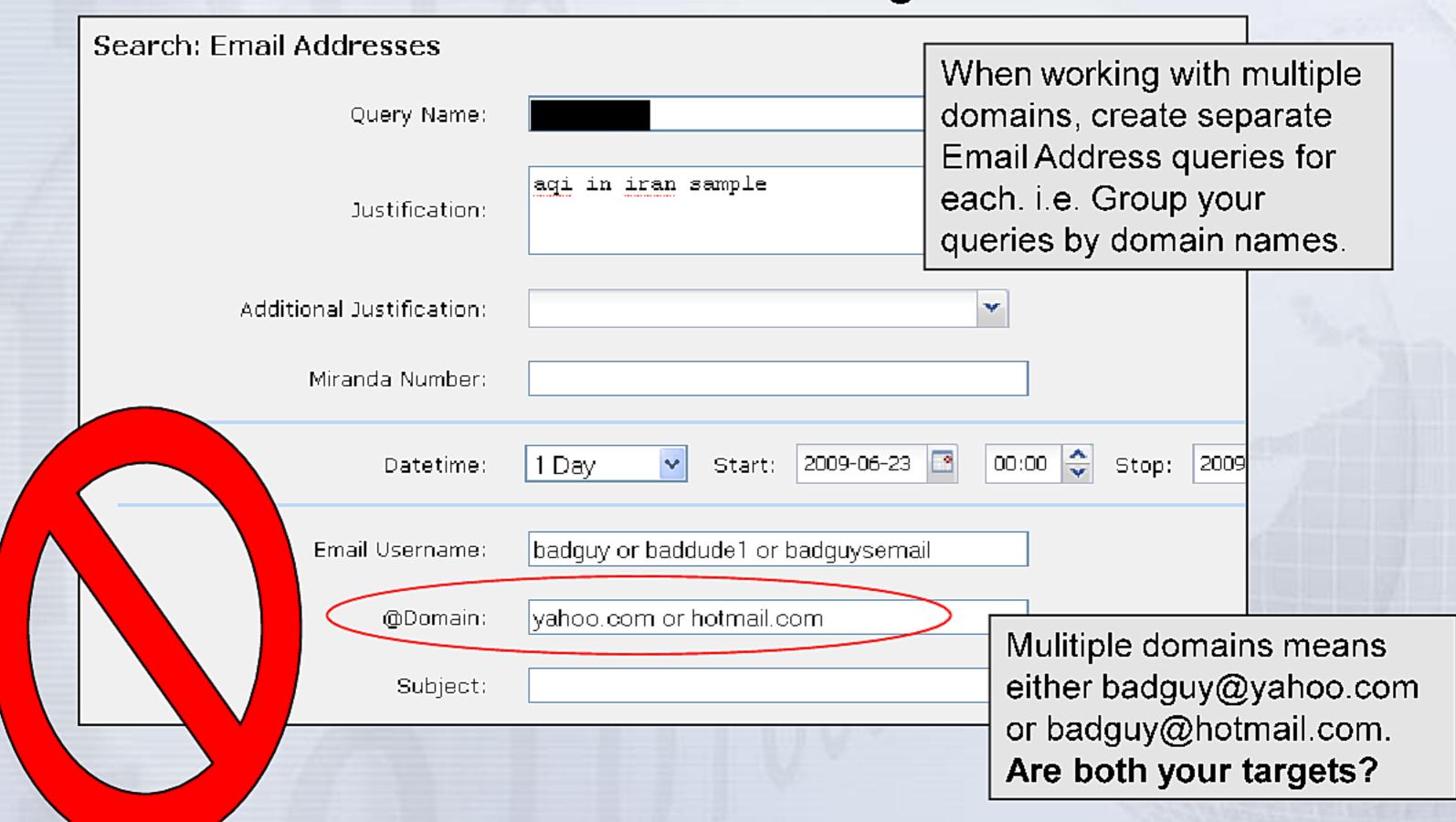
Enter usernames and domains into query

Search: Email Addresses	
Query Name:	
Justification:	aqi in iran sample
Additional Justification:	
Miranda Number:	
Datetime:	1 Day ▼ Start: 2009-06-23
Email Username:	badguy or baddude1 or badguysemail
@Domain:	yahoo.com
Subject:	Mulitiple usernames from SAME domain can be OR'd

Creating Email Address Queries



BE VERY CAREFUL of OR'ing domains



Email Address



Sample Search: baku@huawei.com

Search: Email Addresses	
Query Name:	
Justification:	azerbaijiani huawei bubba
Additional Justification:	•
Miranda Number:	
Datetime:	1 Week ✓ Start: 2009-06-17 🛅 00:00 💠 St
Email Username:	baku
@Domain:	huawei.com

Email Address



Email Addresses are found in many parts of traffic

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Raw Data

DNI Format

■ HTTP Header Information

Content Type: HTTP/HTML

Services -

Fax: 0061-2-94118533

Vienna, Austria

Ezone Office Building, 4th Floor/ Top 7, Ernst-Melchior-Gasse 20, 1020 Vienna, Austria

TC 1 0042 1 21100000

Results here are from someone viewing a website that contained the email address

Baku, Azerbaijan

Caspian Plaza Centre ,block 610-611, J.Jabbarly St., Bakı

Azerbaijan, Az1065

Tel: 0099412-510-5644/5744/5844

Fax: 0099412-510-5944

E-mail: baku@huawei.com

Bahrain, Bahrain

Building 647, Road 2811Seef District 428Kingdom of Bahrain Villa NO.1, Mohamedia Garden, Gate NO.36,Road

Tel: 00973-17568708 No.3431,Block No.334,Bahrain

Tel: 00974-3443296/00973-9580085

Dhaka, Bangladesh

Fax: 00973-17568701

Minsk, Belarus

R M Centere(2nd Floor),101, gulshan Avenue Gulshan Model Korolya str.,51, floor-2, office-28, Minsk,Belarus

TOP SECRET//COMINT//REL TO USA, AUS, CAN, GBR, NZL

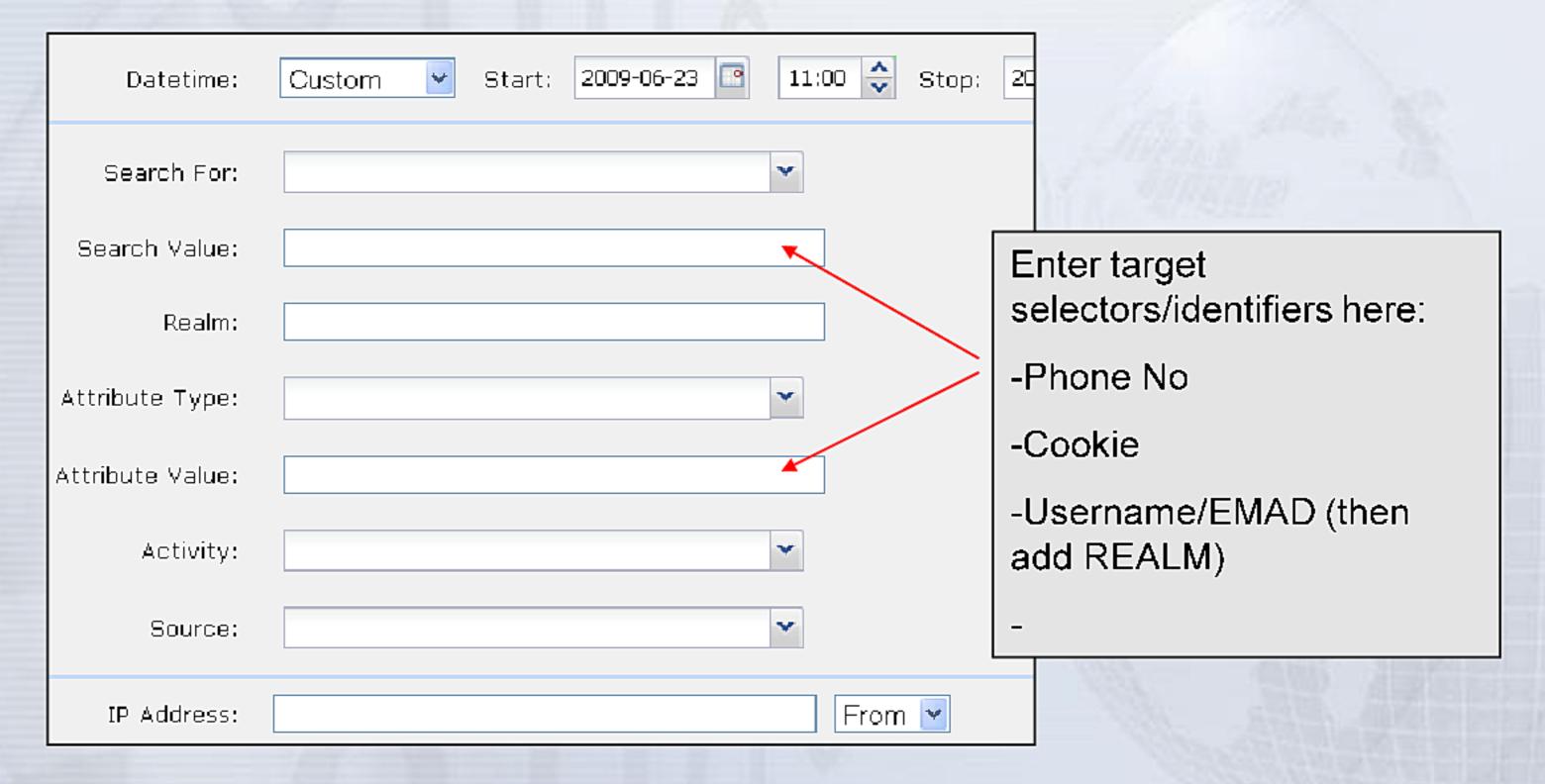
User Activity Query

- User Activity query is based on APPROC collection (such as chat, webmail, etc)
- Allows more flexible search criteria than Email Address query
 - Can search on: Cookies, numeric logins (e.g. web forums & OSN), VoIP selectors, webcam first images, Webmail profile information from registration (birthdays), general usernames

Creating User Activity Queries



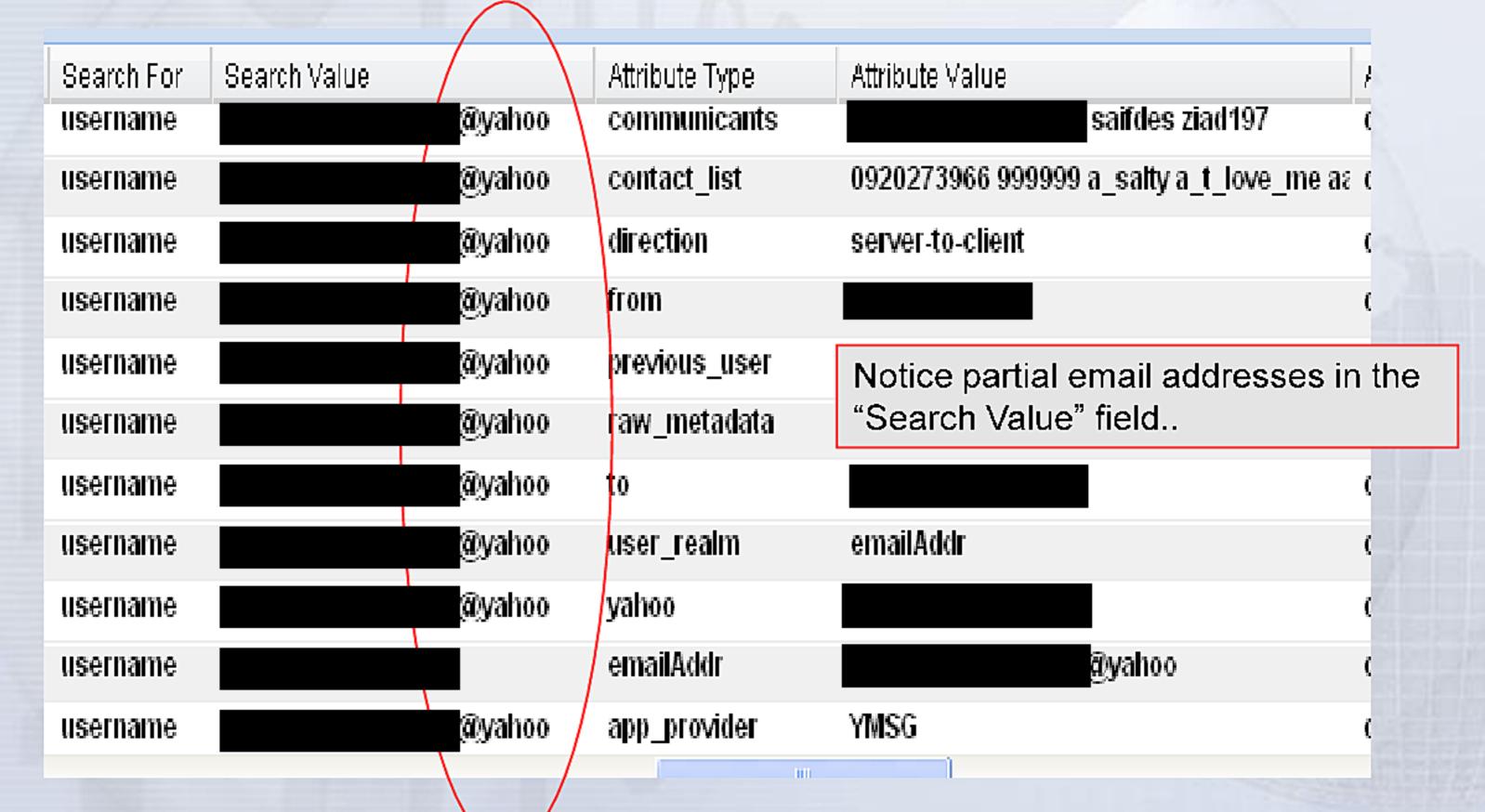
The fields in a User Activity query can be confusing



Creating User Activity Queries



The fields in a User Activity query can be confusing



Creating User Activity Queries



- Scenario:
 - You have a target's email address:
 - @hotmail.com
 - Known: One email address
 - Unknown: Alternate ID's, IPs, Location, Photo, etc... (lots of stuff)

Where do we begin?



- I have an Email Address and want to see if it's being collected?
 - Do an Email Address query on username and domain

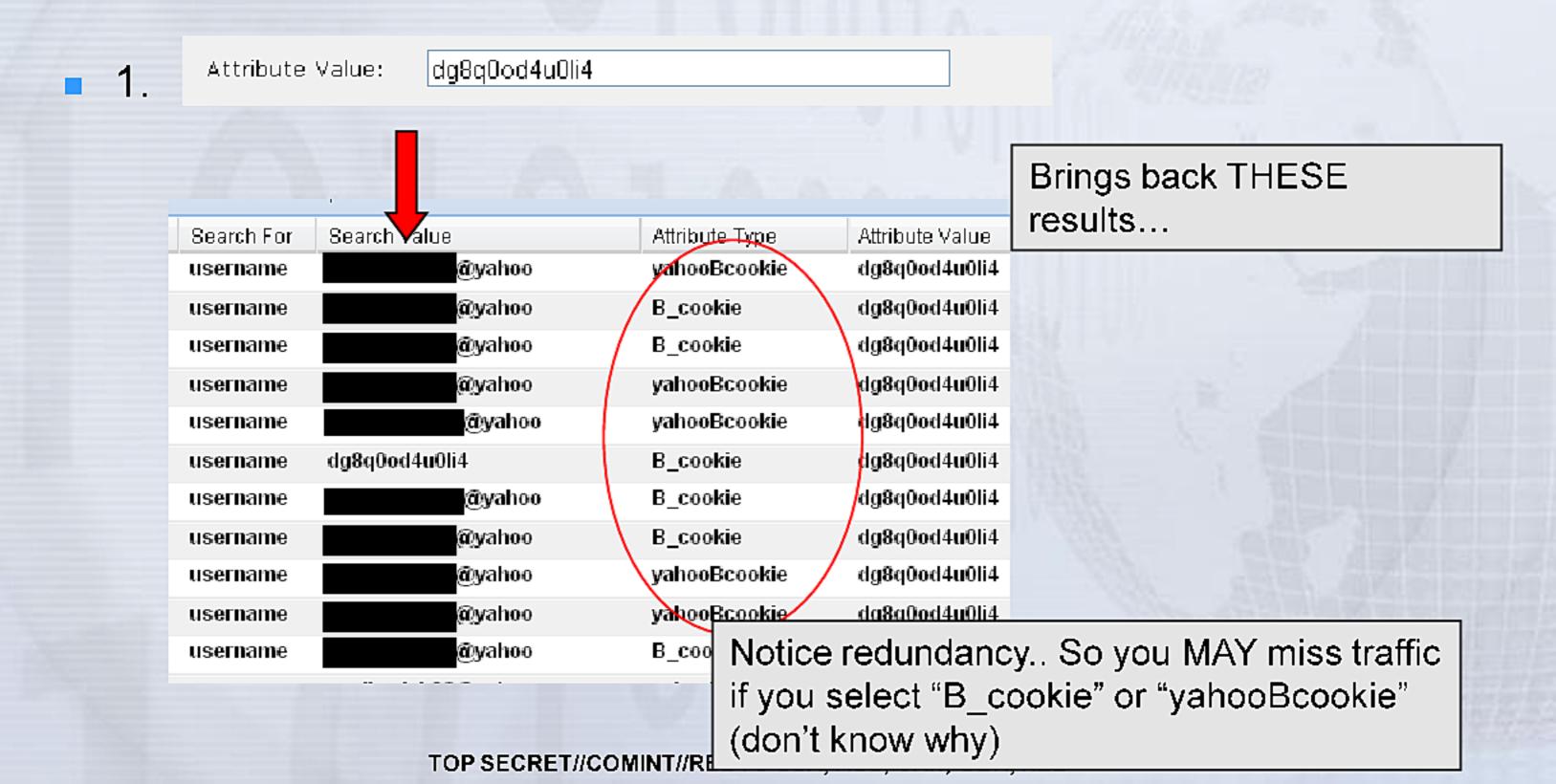


Do a User Activity query on the email address in the "Selector Value"

Search Value:	baku@huawei*
	<u> </u>

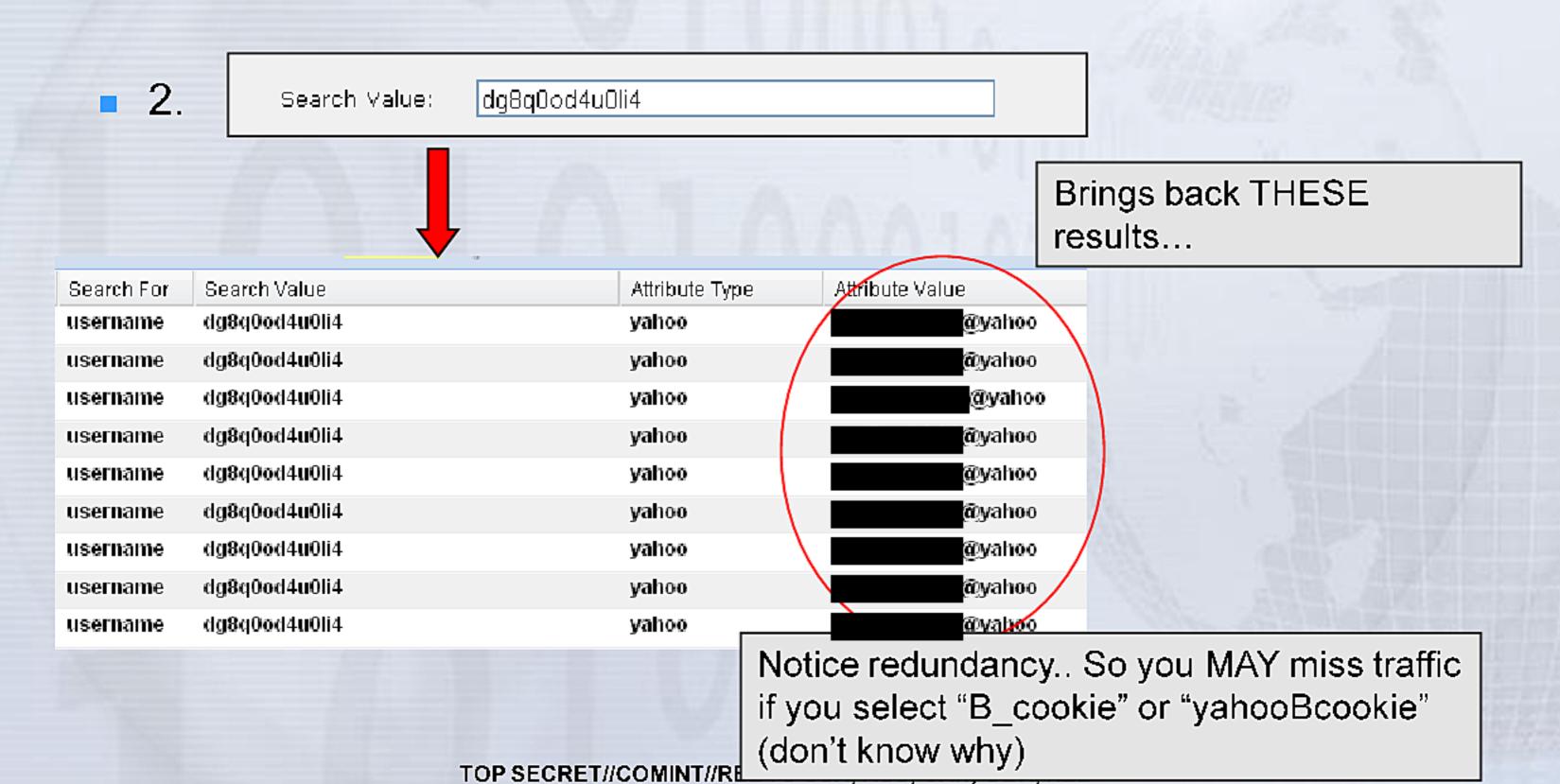


- I have a Cookie and want to see what other accounts access this computer
 - Do TWO separate User Activity query on the cookies



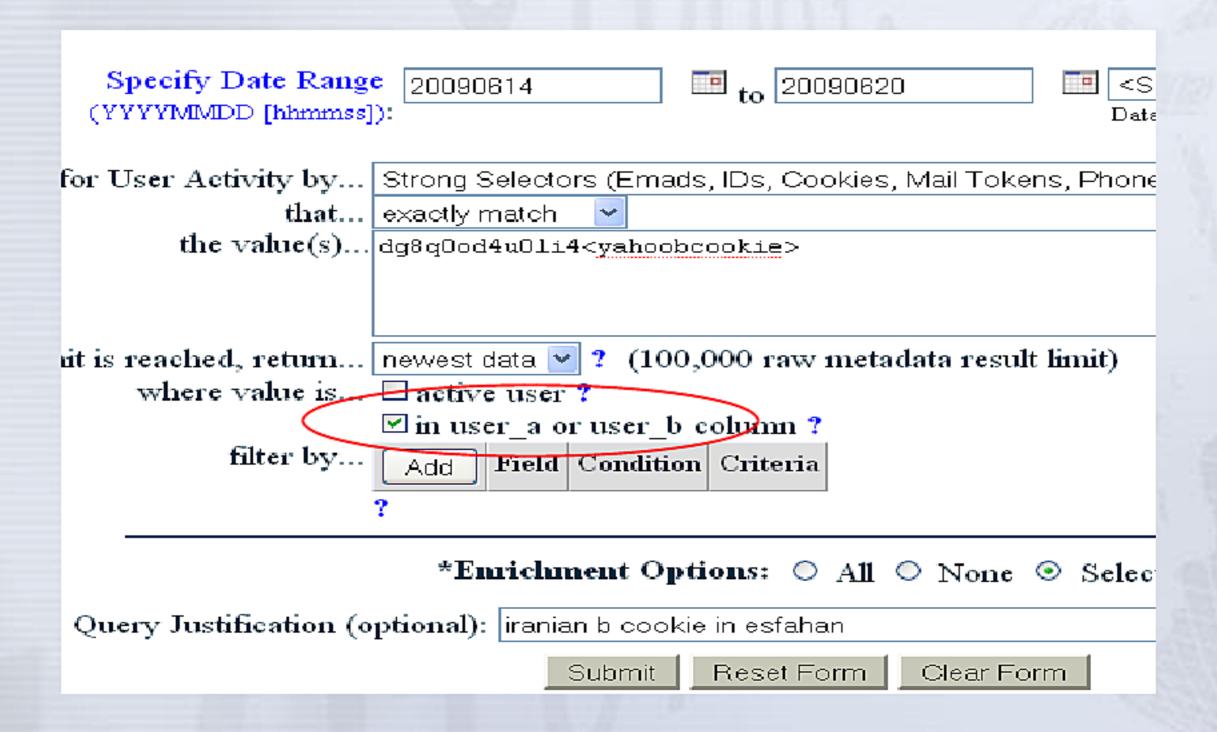


- I have a Cookie and want to see what other accounts access this computer
 - Do TWO separate User Activity query on the cookies





- I have a Cookie and want to see what other accounts access this computer
 - Do a Marina query on the cookie as well (why not)?



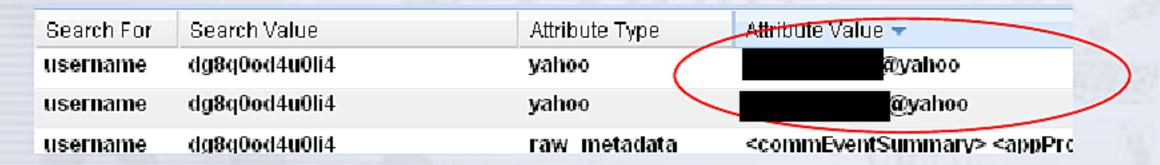


- I have a Cookie and want to see what other accounts access this computer
 - Do a Marina query on the cookie as well (why not)?

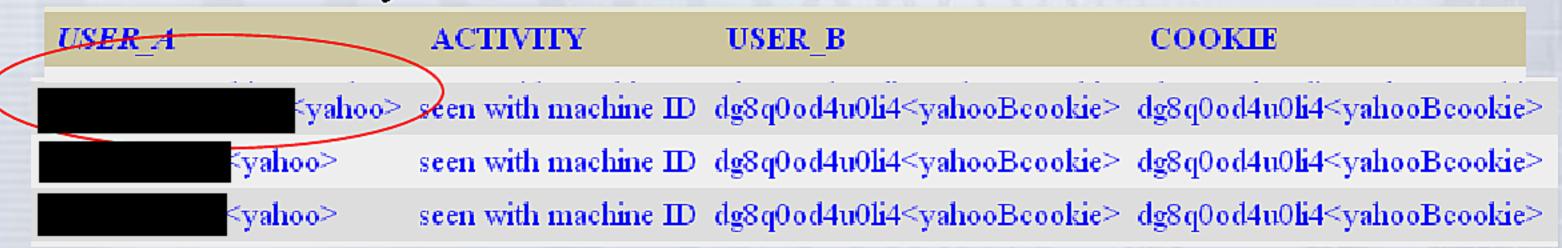
	USER_A	ACTIVITY	USER_B	COOKIE
Ì	<yahoo></yahoo>	seen with machine ID	dg8q0od4u0li4 <yahoobcookie></yahoobcookie>	dg8q0od4u0li4 <yahoobcookie></yahoobcookie>
	<yahoo></yahoo>	seen with machine ID	dg8q0od4u0li4 <yahoobcookie></yahoobcookie>	dg8q0od4u0li4 <yahoobcookie></yahoobcookie>
	<yahoo></yahoo>	seen with machine ID	dg8q0od4u0li4 <yahoobcookie></yahoobcookie>	dg8q0od4u0li4 <yahoobcookie></yahoobcookie>



- So let's put the cookie query all together...
 - Between Marina and XKS, I should have an idea of all the accounts..
 - Results pulling on dg8q0od4u0li4 as a Search Value



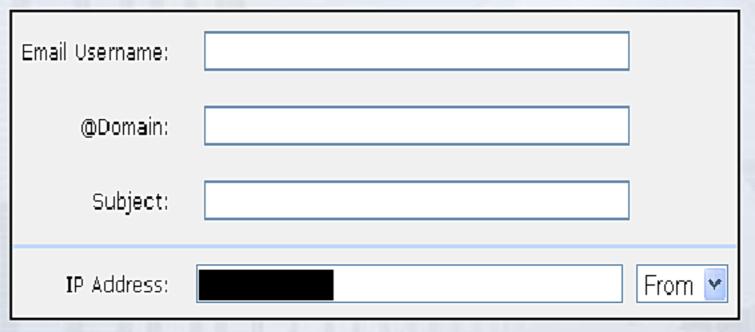
Plus my Marina results



RESULTS: Three users on the a computer..



- I have an IP address and want to know what users/accounts are collected in that network? (I.E. a Café's IP address, or mail/web server for an organization)
 - Do an Email Address
 query on the IP address



 Do a User Activity query on the IP address

Search For	~
Search Value	
Realm	
∧ttribute Type	
Attrbute Value	
Activity	~
Scurce	•
IP Address:	

Moral of the story



- Email Address query looks for the @ symbol in traffic
- User Activity search allows you to query on more than just an email address