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» Resolution and DNS

- Clients make request by using a DNS name
- If not configured locally (HOSTS), a DNS server is queried to provide needed information
- When the client uses the FQDN, the resource can be found and accessed if available
- » What can be found with Wireshark?
 - Failures in DNS from the client to the DNS server and beyond



No.	Time	Source	Destination	Protocol Evr	pert Length Info
140.	1 0.000000	192.168.170.8	192,168,170,20	DNS	70 Standard guery 0x1032 TXT google.com
	2 0.000530	192.168.170.20	192.168.170.8	DNS	98 Standard query response 0x1032 TXT
	3 4.005222	192.168.170.8	192.168.170.20	DNS	70 Standard query 0xf76f MX google.com
	4 4.837355	192.168.170.20	192.168.170.8	DNS	298 Standard query response 0xf76f MX 40 smtp4.google.com MX 10 smtp5.google.com
	5 12.817185	192.168.170.8	192.168.170.20	DNS	70 Standard query 0x49a1 LOC google.com
	6 12.956209	192.168.170.20	192.168.170.8	DNS	70 Standard query response 0x49a1
	7 20.824827	192.168.170.8	192.168.170.20	DNS	85 Standard query 0x9bbb PTR 104.9.192.66.in-addr.arpa
	8 20.825333	192.168.170.20	192.168.170.8	DNS	129 Standard query response 0x9bbb PTR 66-192-9-104.gen.twtelecom.net
	9 92.189905	192.168.170.8	192.168.170.20	DNS	74 Standard query 0x75c0 A www.netbsd.org
	10 92.238816	192.168.170.20	192.168.170.8	DNS	90 Standard query response 0x75c0 A 204.152.190.12
	11 108.965135	192.168.170.8	192.168.170.20	DNS	74 Standard query 0xf0d4 AAAA www.netbsd.org
	12 109.202803	192.168.170.20	192.168.170.8	DNS	102 Standard query response 0xf0d4 AAAA 2001:4f8:4:7:2e0:81ff:fe52:9a6b
	13 169.027394	192.168.170.8	192.168.170.20	DNS	74 Standard query 0x7f39 AAAA www.netbsd.org
	14 169.027781	192.168.170.20	192.168.170.8	DNS	102 Standard query response 0x7f39 AAAA 2001:4f8:4:7:2e0:81ff:fe52:9a6b
	15 178.239844	192.168.170.8	192.168.170.20	DNS	74 Standard query 0x8db3 AAAA www.google.com
	16 178.256382	192.168.170.20	192.168.170.8	DNS	94 Standard query response 0x8db3 CNAME www.l.google.com
	17 187.853816	192.168.170.8	192.168.170.20	DNS	76 Standard query Oxdca2 AAAA www.l.google.com
	18 187.870481	192.168.170.20	192.168.170.8	DNS	76 Standard query response 0xdca2
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⊮ Frame 1: 70 bytes on wire (560 bits), 70 bytes captured (560 bits)

B Ethernet II, Src: Asustekc_b1:0c:ad (00:e0:18:b1:0c:ad), Dst: QuantaCo_32:41:8c (00:c0:9f:32:41:8c)

B Internet Protocol Version 4, Src: 192.168.170.8 (192.168.170.8), Dst: 192.168.170.20 (192.168.170.20)

⊕ Domain Name System (query)



» Viewing the stream

- Review entire conversation
- Look for anomalies in communication
- Look for false records
- Look for zone information



📕 Follow UDP Stream					
Stream Content					
.2google.com2google.comv=spf1 ptr ? all.ogoogle.comogoogle.com(. .(.smtp4(.					
.smtp5(.					
.smtp6(. .smtp1(.					
.smtp2(. .(.smtp3*x%@x@vxBf]x9x					
%X9.I					
d.org					
ogle.comywww.l.google.comwww.l.google.comwww.l.google.comwww.l.google.comwww.example.com&					
w.isc.orgXX					
Entire conversation (1212 bytes)					
<u>Find</u> Save <u>As</u> <u>Print</u> ASCII © EBCDIC © Hex Dump © C Arrays @ Raw					
Help Filter Out This Stream Close					



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Questions?

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