

1. Verify the IP address to which the DNS message(obtained from wireshark) is sent using ipconfig.

The IP address of DNS of the wireshark verified from the system's command 'ipconfig' is highlighted in dark blue box below.

The screenshot displays two windows side-by-side. On the left is Wireshark, showing a packet capture with a filter of 'dns'. The packet list table is as follows:

No.	Time	Source	Destination	Protocol	Length	Info
1	0.000000	192.168.0.106	192.168.0.1	DNS	69	Standard query query
2	0.000010	192.168.0.106	192.168.0.1	DNS	69	Standard query response
11	0.169006	192.168.0.1	192.168.0.106	DNS	324	Standard query response
172	3.315694	192.168.0.106	192.168.0.1	DNS	89	Standard query query
173	3.315694	192.168.0.106	192.168.0.1	DNS	78	Standard query response
175	3.315702	192.168.0.106	192.168.0.1	DNS	78	Standard query query
176	3.315702	192.168.0.106	192.168.0.1	DNS	89	Standard query response
177	3.318831	192.168.0.106	192.168.0.1	DNS	74	Standard query query
178	3.318882	192.168.0.106	192.168.0.1	DNS	74	Standard query response
179	3.333517	192.168.0.1	192.168.0.106	DNS	486	Standard query response
180	3.333517	192.168.0.1	192.168.0.106	DNS	494	Standard query response
185	3.334969	192.168.0.106	192.168.0.1	DNS	80	Standard query query
186	3.334974	192.168.0.106	192.168.0.1	DNS	80	Standard query response
188	3.341571	192.168.0.1	192.168.0.106	DNS	371	Standard query response
191	3.349479	192.168.0.1	192.168.0.106	DNS	466	Standard query response

The packet details pane shows the selected packet (No. 11) as a 'User Datagram Protocol, Src Port: 53, Dst Port: 54704'. The 'Domain Name System (response)' section shows 'Transaction ID: 0xf5c0', 'Flags: 0x8180 Standard query response, No error', 'Questions: 1', 'Answer RRs: 3', 'Authority RRs: 4', and 'Additional RRs: 4'. The 'Queries' section shows a query for 'c.msn.com: type A, class IN' with details: 'Name: c.msn.com', '[Name Length: 9]', and '[Label Count: 3]'. The text 'DNS query type A' is overlaid on this section.

On the right is a Windows Command Prompt window showing the output of the 'ipconfig' command. It displays information for 'Ethernet adapter Ethernet 2:' and 'Wireless LAN adapter Wi-Fi:'. The 'Default Gateway' for the Wi-Fi adapter is highlighted with a dark blue box and shows the IP address '192.168.0.1'.

2. What was the type of DNS query?

Type of DNS query is A (highlighted in the above figure).