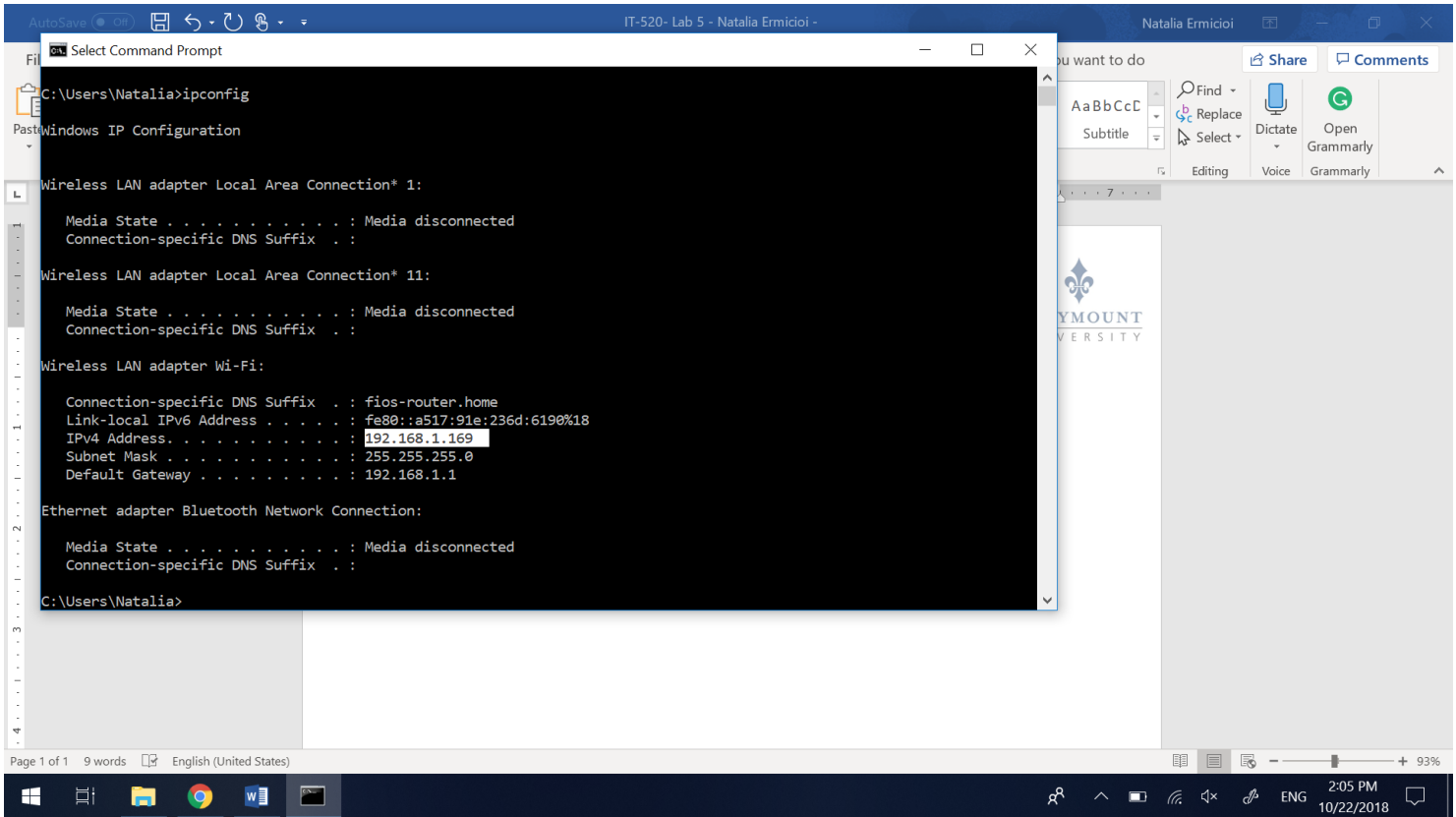


1. What is your computers IP address?

Answer: 192.168.1.169



Lab 5

file:///C:/Users/Natalia/Downloads/lab5.pdf

On Windows:

```
Microsoft Windows [Version 10.0.17134.345]
(c) 2018 Microsoft Corporation. All rights reserved.

C:\Users\Natalia> tracert www.webawards.com.au

Tracing route to webawards.com.au [122.129.218.218]
over a maximum of 30 hops:

  1  *          2 ms      1 ms      FIOS_Quantum_Gateway.fios-router.home [192.168.1.1]
  2  6 ms      4 ms      myaccount5.wpcpanel.com [122.129.218.218]

Trace complete.

C:\Users\Natalia> tracert www.webawards.com.au

Tracing route to webawards.com.au [122.129.218.218]
over a maximum of 30 hops:

  1  2 ms      <1 ms      FIOS_Quantum_Gateway.fios-router.home [192.168.1.1]
  2  3 ms      3 ms      myaccount5.wpcpanel.com [122.129.218.218]

Trace complete.

C:\Users\Natalia>
```

2			
3			

2:13 PM
10/22/2018

2. With reference to private/public IP addresses. What type of IP address is the first IP from your traceroute result.

Answer: [192.168.1.1] – This is a private IP address – home FIOS router.

The screenshot shows the Neustar UltraTools website with the WHOIS IP Lookup Tool. The input field contains the IP address 192.168.1.1. The results show that this is a private IP address from the 192.168.0.0/16 range, assigned to the Internet Assigned Numbers Authority (IANA).

WHOIS IP Lookup Tool
The IPWHOIS Lookup tool finds contact information for the owner of a specified IP address.

Enter a host name or an IP address:
192.168.1.1 [Go »]

Related Tools: [DNS Traversal](#) [Traceroute](#) [Vector Trace](#) [Ping](#) [WHOIS Lookup](#)

```

Source: whois.arin.net
IP Address: 192.168.1.1
Name: PRIVATE-ADDRESS-CBLK-RFC1918-IANA-RESERVED
Handle: NET-192-168-0-0-1
Registration Date: 3/15/94
Range: 192.168.0.0-192.168.255.255
Org: Internet Assigned Numbers Authority
Org Handle: IANA
Address: 12025 Waterfront Drive
Suite 300
City: Los Angeles
State/Province: CA
Postal Code: 90292
Country: United States
Name Servers:
  
```

3. With reference to private/public IP addresses. What type of IP address is the second IP from your traceroute result.

Answer: [122.129.218.218] – this is a public IP address and belongs to WEB-PROPHETS-AU

The screenshot shows the Neustar UltraTools website with the WHOIS IP Lookup Tool. The input field contains the IP address 122.129.218.218. The results show that this is a public IP address from the 122.129.216.0/24 range, assigned to WEB-PROPHETS-AU.

WHOIS IP Lookup Tool
The IPWHOIS Lookup tool finds contact information for the owner of a specified IP address.

Enter a host name or an IP address:
122.129.218.218 [Go »]

Related Tools: [DNS Traversal](#) [Traceroute](#) [Vector Trace](#) [Ping](#) [WHOIS Lookup](#)

```

Source: whois.apnic.net
IP Address: 122.129.218.218

% [whois.apnic.net]
% whois data copyright terms    http://www.apnic.net/db/dbcopyright.html
% Information related to '122.129.216.0 - 122.129.223.255'
% Abuse contact for '122.129.216.0 - 122.129.223.255' is 'abuse@webprophets.net.au'

inetnum:        122.129.216.0 - 122.129.223.255
netname:        WEB-PROPHETS-AU
descr:          3/36 Grey Street
country:        AU
org:            ORG-WPPL1-AP
admin-c:        WPPL1-AP
  
```

4. In a tabular format (use table example below), and in sequential order. Indicate the location of each IP address (include state for US states) and the organization that owns the IP

address. (Use <https://www.ultratools.com/tools/ipWhoisLookup> to look up IP address whois information).

HOP Count	IP Address	Organization (IP Owner)	Location (US state)/Country
1	[192.168.1.1]	IANA – Internet Assigned Numbers Authority	Los Angeles, CA, USA
2	[122.129.218.218]	WEB-PROPHETS-AU	AUSTRALIA

5. In your own words, explain everything you just did, and what route did your packet took from source to destination. How many US states did your packet go through? How many countries if any?

In theory, I was supposed to see the route of my packet from my computer IP address, to my router's IP address and all following routers' IP addresses that would contribute to the path of my packet from my personal computer to the given website in Australia. I was supposed to see several hops with individual IP addresses and by looking them up on www.ultratools.com, I could see the organizations that own that IP addresses and the countries (geolocation) where they are based. I imagine this process as flight travel path – going from the US to Australia as a direct flight with multiple stops in different midpoint airports. The same direction – US – Australia can have multiple paths through different airports – one can go US – Germany – Russia – Australia. Or US-China – Australia. Or many other.

In practice, I could see only my router's IP address and the final IP address, and I couldn't see any hops or IP addresses in between - that were following the my router's IP address. I called FIOS and they mentioned to me that the router's manufacturer could have something to do with it, but we couldn't communicate with the manufacturer. I tried to apply the same command with a website that is registered in Europe, and the result was the same. Please find the attachment below.

AutoSave IT-520- Lab 5 - Natalia Ermicio Natalia Ermicio

File Home Insert Draw Design Layout References Mailings Review View Help Tell me what you want to do Share Comments

Command Prompt

Tracing route to webawards.com.au [122.129.218.218]
over a maximum of 30 hops:

Hop	Router	IP Address	Source	Destination	Delay
1	*	1 ms	1 ms	FIOS_Quantum_Gateway.fios-router.home	[192.168.1.1]
2	3 ms	1 ms	1 ms	myaccount5.wpcpanel.com	[122.129.218.218]

Trace complete.

C:\Users\Natalia>tracert www.unimedia.md

Tracing route to unimedia.info [151.101.130.207]
over a maximum of 30 hops:

Hop	Router	IP Address	Source	Destination	Delay
1	1 ms	<1 ms	<1 ms	FIOS_Quantum_Gateway.fios-router.home	[192.168.1.1]
2	4 ms	3 ms	2 ms	151.101.130.207	

Trace complete.

C:\Users\Natalia>tracert www.agora.md

Tracing route to agora.md [37.187.181.164]
over a maximum of 30 hops:

Hop	Router	IP Address	Source	Destination	Delay
1	*	2 ms	1 ms	FIOS_Quantum_Gateway.fios-router.home	[192.168.1.1]
2	4 ms	2 ms	2 ms	agora.md	[37.187.181.164]

Trace complete.

C:\Users\Natalia>8

Lab 5

Page 5 of 5 174 words English (United States) 3:01 PM 10/22/2018