WireShark Lab 5

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Include screen shot before question 1, with IP showing highlighted.

Include screen shot of Print with Selected Packet only and print as displayed marked.

Include a terminal screenshot showing computer IP address on the front page before Question 1, and a full PRINT of the HTTP OK message as the last page.

Save all as .pdf before uploading.

Follow the instructions in Lab 2 and expand the IP detail section. • Pay attention to the text in bold. I expect you to explain?

Questions:

1. What is the IP address of your computer? – **Wireshak screenshot not, Terminal**
   My IP address is shown below, 192.168.1.17 in this terminal screen shot.
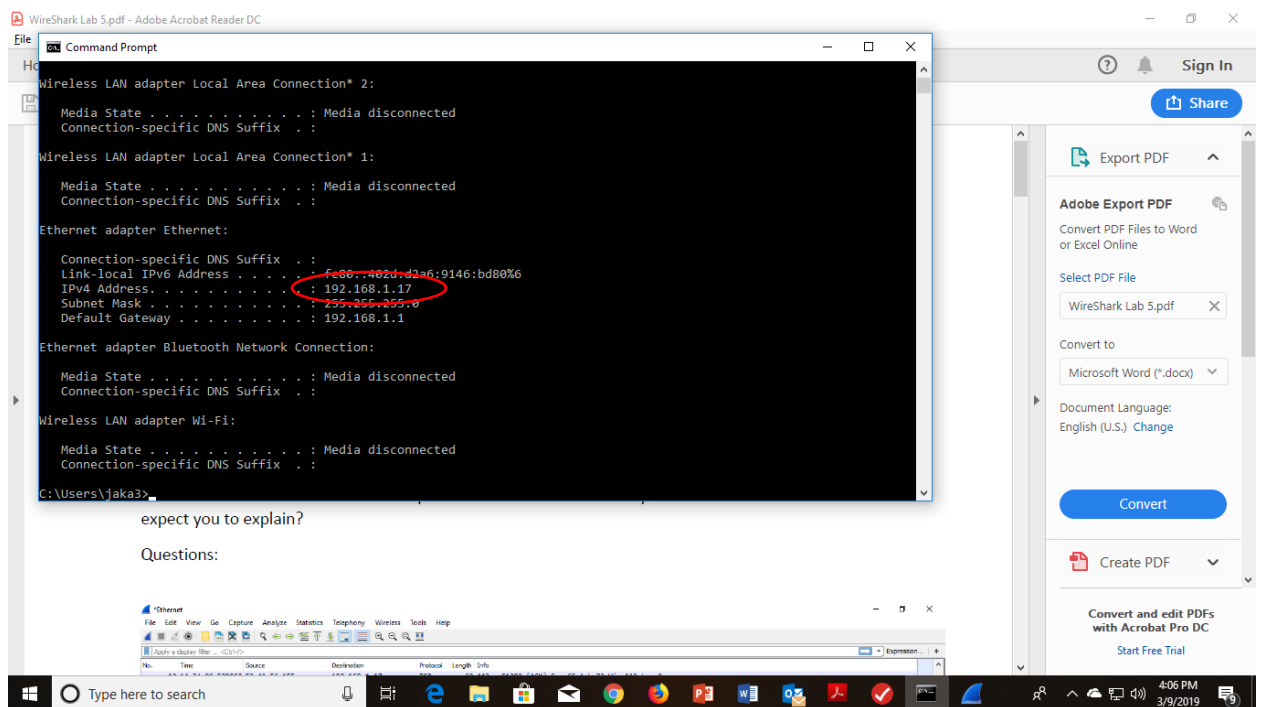
2. With reference to private/public IP addresses. What type of IP address is the first IP from your traceroute result. 192.168.1.1 is the IP, this is a private IP address.

Adobe Acrobat Reader DC

Command Prompt

```
   Media State . . . . . . . . . . . : Media disconnected
   Connection-specific DNS Suffix  . :

Wireless LAN adapter Wi-Fi:

   Media State . . . . . . . . . . . : Media disconnected
   Connection-specific DNS Suffix  . :

C:\Users\jaka3>tracert www.webawards.com.au

Tracing route to www.webawards.com.au [104.31.82.67]
over a maximum of 30 hops:

  1    <1 ms    <1 ms    <1 ms  192.168.1.1
  2    11 ms    10 ms     9 ms  96.120.11.225
  3    10 ms    10 ms     9 ms  68.87.138.229
  4    14 ms    14 ms    15 ms  96.110.6.221
  5    15 ms    16 ms    22 ms  ae-16-ar01.capitolhghts.md.bad.comcast.net [162.151.60.233]
  6    17 ms    19 ms    18 ms  be-33657-cr02.ashburn.va.ibone.comcast.net [68.86.90.57]
  7    16 ms    15 ms    14 ms  be-10142-pe01.ashburn.va.ibone.comcast.net [68.86.86.34]
  8    17 ms    15 ms    15 ms  50.248.117.146
  9    16 ms    14 ms    16 ms  104.31.82.67

Trace complete.

C:\Users\jaka3>
```

3. With reference to private/public IP addresses. What type of IP address is the second IP from your traceroute result.   96.120.11.225 is a public IP.

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Command Prompt

```
   Media State . . . . . . . . . . . : Media disconnected
   Connection-specific DNS Suffix  . :

Wireless LAN adapter Wi-Fi:

   Media State . . . . . . . . . . . : Media disconnected
   Connection-specific DNS Suffix  . :

C:\Users\jaka3>tracert www.webawards.com.au

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  6    17 ms    19 ms    18 ms  be-33657-cr02.ashburn.va.ibone.comcast.net [68.86.90.57]
  7    16 ms    15 ms    14 ms  be-10142-pe01.ashburn.va.ibone.comcast.net [68.86.86.34]
  8    17 ms    15 ms    15 ms  50.248.117.146
  9    16 ms    14 ms    16 ms  104.31.82.67

Trace complete.

C:\Users\jaka3>
```

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). Add a row for every single IP in your traceroute result page.

Hop Count	IP address	Organization (IP Owner)	Location (US state)/Country
1	192.168.1.1	Internet Assigned Numbers Authority	Los Angeles, CA, USA
2	96.120.11.225	Comcast IP Services, L.L.C.	Mt Laurel, NJ, USA
3	68.87.138.229	Comcast Cable Communications, Inc.	Mt Laurel, NJ, USA
4	96.110.6.221	Comcast Cable Communications, Inc.	Mt Laurel, NJ, USA
5	162.151.60.233	Comcast Cable Communications, Inc.	Mt Laurel, NJ, USA
6	68.86.90.57	Comcast Cable Communications, Inc.	Mt Laurel, NJ, USA
7	68.86.86.34	Comcast Cable Communications, Inc.	Mt Laurel, NJ, USA
8	50.248.117.146	Comcast Cable Communications, Inc.	Mt Laurel, NJ, USA
9	104.31.83.67	Cloudflare, Inc	San Francisco, CA, USA
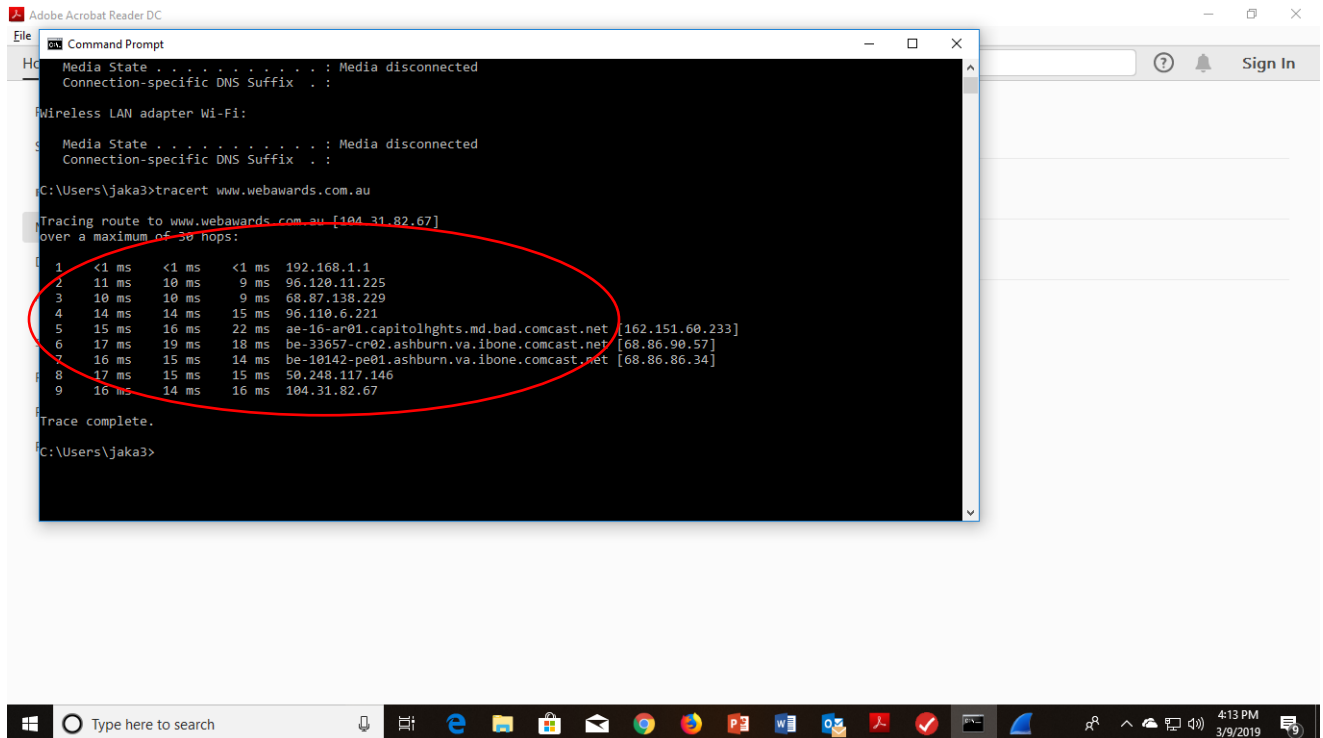
5. In your own words, explain everything you just did, and what route did your packet took from source to destination. How many US states did your packet go through? How many countries if any?

I entered the command prompt area in the computer and asked it to run a trace on the web address given for the assignment.

I copied the information from the CMD screens with the IP addresses.
I entered each IP address into the https://www.ultratools.com/tools/ipWhoisLookup address on the browser to find the information, adding rows to the table.

My packet went to two states (NJ and CA). My packet stayed in the USA.

Print screen, final page.