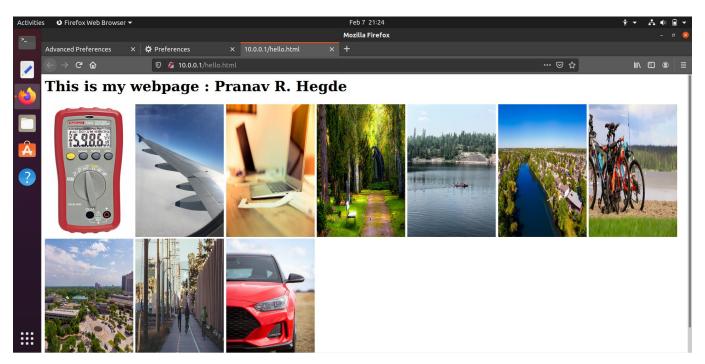
Computer networks lab 2

Non persistent and persistent HTTP connections

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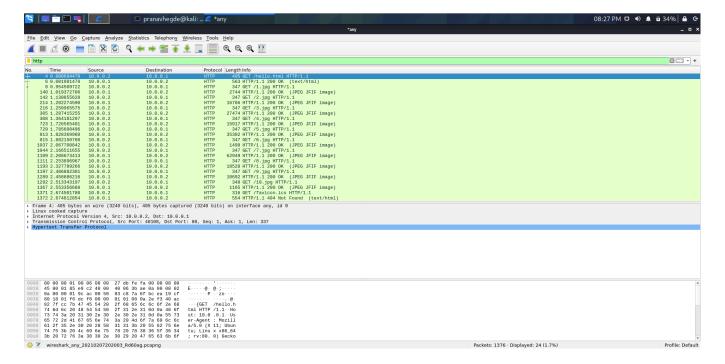
The website created and hosted on server machine that is accessed via the client machine:



NON – PERSISTENT CONNECTION

Wireshark HTTP capture of the non-persistent connection:

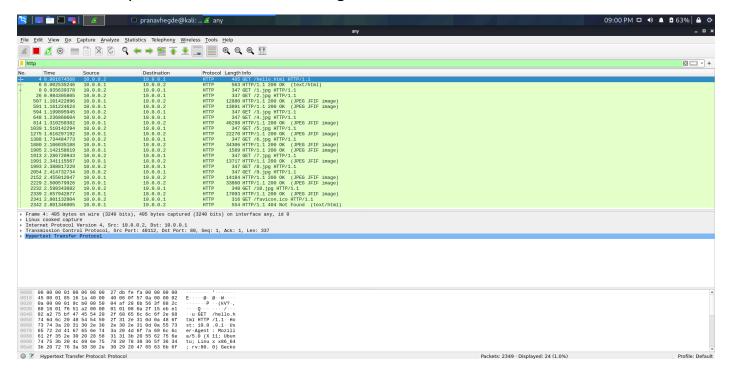
Time required for all the 10 images to load: 2.553356688 - 0.954509722 = 1.598846966s



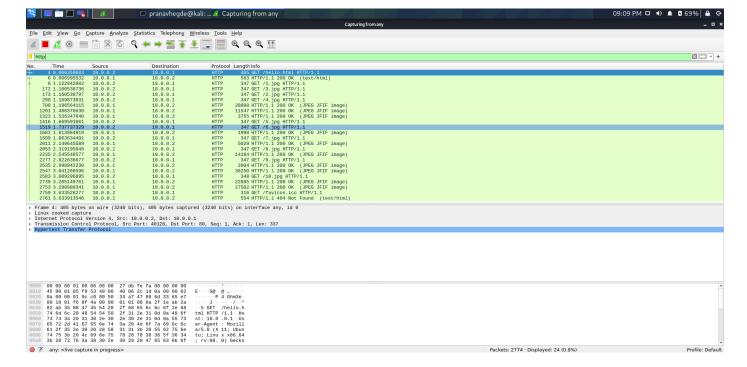
PERSISTENT CONNECTION

Persistent connection Wireshark http capture for different max connections:

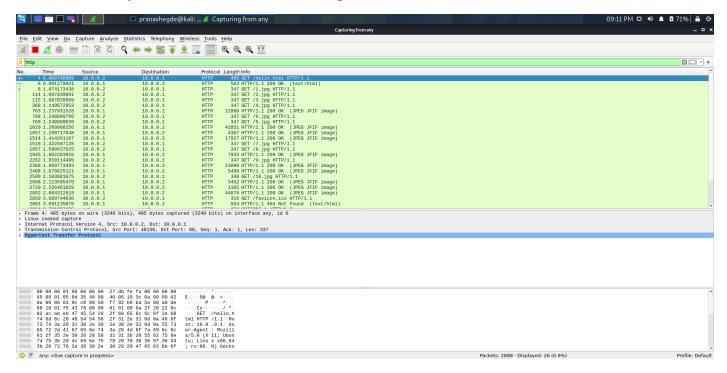
1) Max persistent connections per server = 2
Time required to load all the 10 images: 2.657942877 - 0.935636378 = 1.722306499s



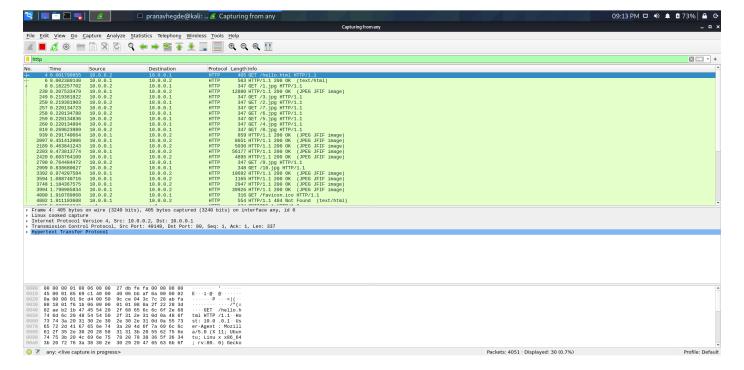
2) Max persistent connections per server = 4
Time required to load all the 10 images: 3.298980341 - 1.22942082 = 2.069559521s



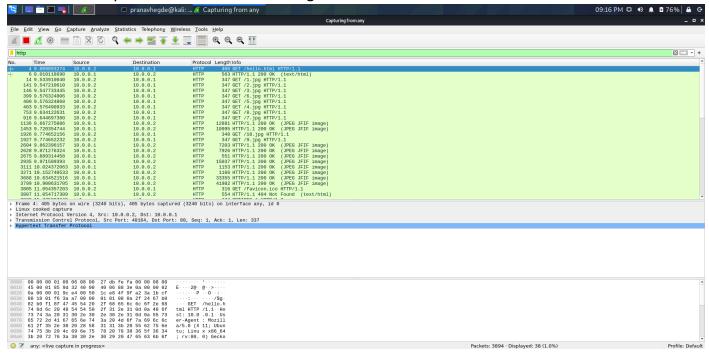
3) Max persistent connections per server = 6
Time required to load all the 10 images: 2.884312918 - 1.074173438 = 1.81013948s



4) Max persistent connections per server = 8
Time required to load all the 10 images: 1.798985834 - 0.182257702 = 1.616728132s



5) Max persistent connections per server = 10
Time required to load all the 10 images: 10.900631705 - 9.533910040 = 1.366721665s



OBSERVATION

- An apache2 server was created in the server machine.
- 10 images all of whose size are above 2MB in size were used to create a webpage
- This webpage was then hosted via server machine on the apache2 server
- This webpage was then accessed via the client machine using the custom added IP address to the network interface.
- Some observations were made for a comparison between persistent and non-persistent http connections

NON - PERSISTENT CONNECTION

Time required for all the 10 images to load: 2.553356688 - 0.954509722 = 1.598846966s

PERSISTENT CONNECTION

- 1) Max persistent connections per server = 2
 Time required to load all the 10 images: 2.657942877 0.935636378 = 1.722306499s
- 2) Max persistent connections per server = 4
 Time required to load all the 10 images: 3.298980341 1.22942082 = 2.069559521s
- 3) Max persistent connections per server = 6
 Time required to load all the 10 images: 2.884312918 1.074173438 = 1.81013948s
- 4) Max persistent connections per server = 8
 Time required to load all the 10 images: 1.798985834 0.182257702 = 1.616728132s
- 5) Max persistent connections per server = 10
 Time required to load all the 10 images: 10.900631705 9.533910040 = 1.366721665s

