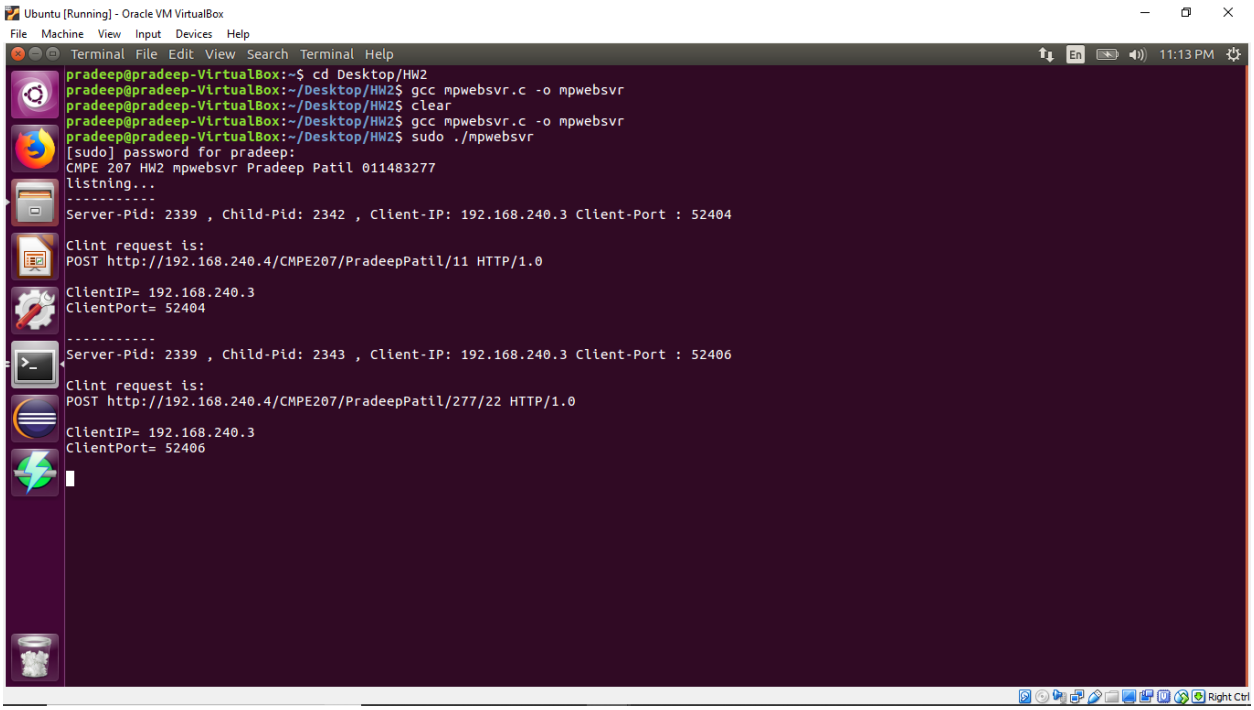
CMPE HW 2 Pradeep Patil

1) The stdout of the shell executing “sudo ./mpwebsvr” on VM1 after step b – which should show the web server on VM1 served those two URLs/clients.



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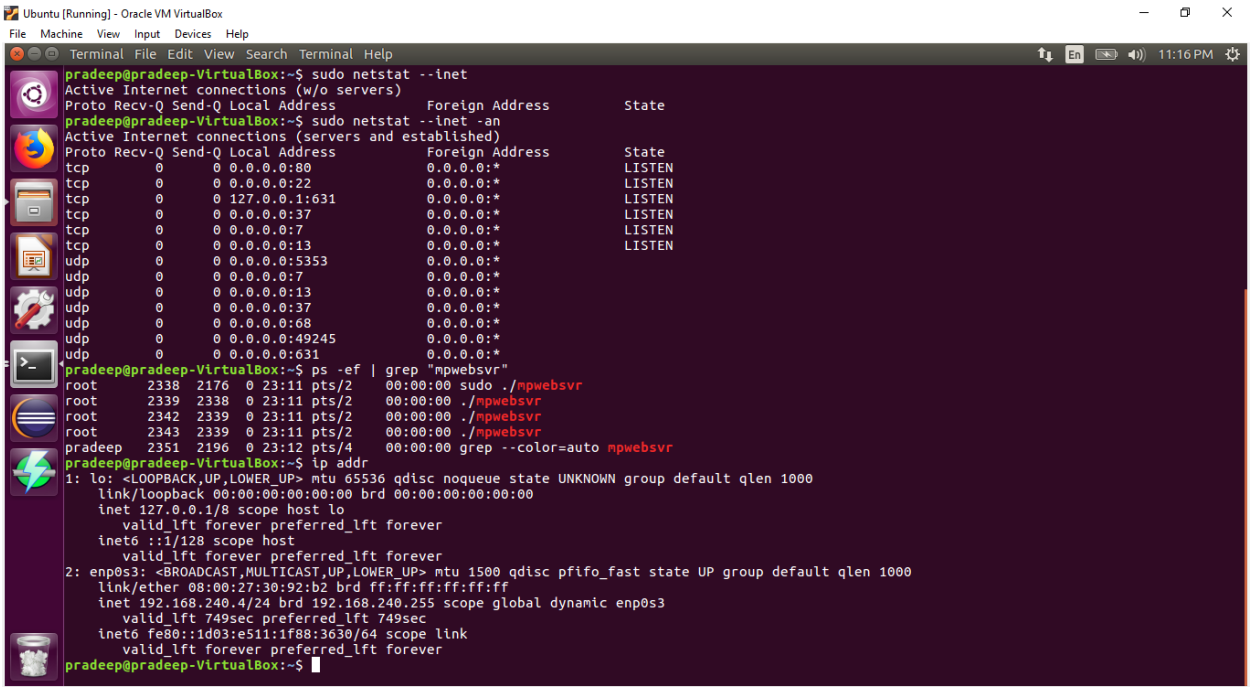
2) The stdout of the shell executing netstat/ps/ip on VM1 after step c – which should show http connections, multiple instances of mpwebsvr, and ip address of VM1.



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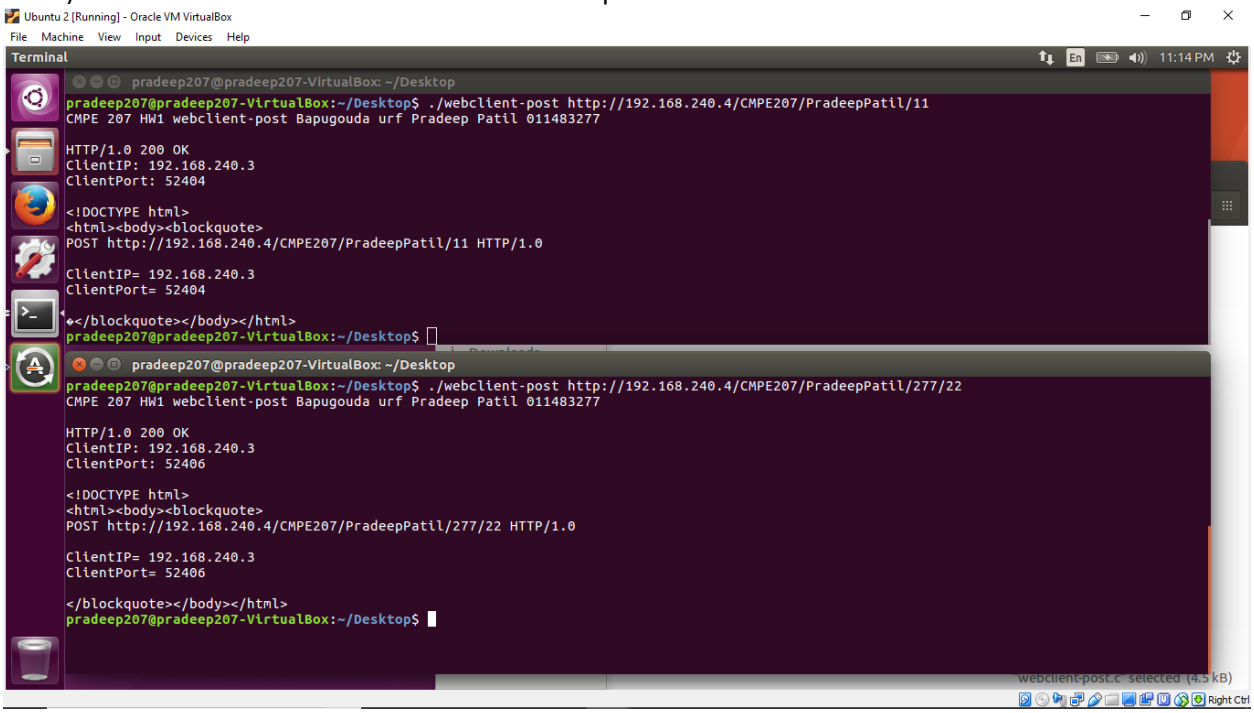
2) The stdout of both shells on VM2 after step b



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4. (10 pts) Include server-side code snippet, and describe how the server retrieves the client request via TCP which is a streaming protocol.

Answer:

//code Snippet

```
// Read the client request.
          printf("Clint request is: \n");
         while (1){
            int rd;
            rd = read(SockID,Buffer,sizeof(Buffer)-1);
            if (rd==0)break;
            strcat(ReadData,Buffer);
            Buffer[rd]='\0';
            printf("%s",Buffer);
            //bzero(Buffer,sizeof(Buffer));
           }
```

Description: Since TCP is streaming service we read the socket in loop until end of file. The read function returns zero when the client sends Shutdown(); indicating the end of transmission and the while loop breaks. This how how the server retrieves the client request via TCP.