Jacob Wakefield

Assignment 2 Part 2

CSC565

11/17/2018



S1 – 146.7.45.64/25

S2 – 146.7.45.128/24

S3 – 146.7.45.16/27

1. There would not be duplicate mac address in the ARP tables of the router. Each network interface card has a unique mac address.
2. “Networking” converted to ASCII “01001110 01100101 01110100 01110111 01101111 01110010 01101011 01101001 01101110 01100111”. After adding the binary 16 bits at a time and accounting for overflow the checksum is: **00001110 00100000.** There were two instances of overflow in this case.
3. “1 2 3 4 5 6 7 8 9 10” converted to 8 bit binary is “00000001 00000010 00000011 00000100 000000101 000000110 00000111 00001000 00001001 00001010”. After adding the binary 16 bits at a time and accounting for overflow the checksum is: **00011001 00100000.** There were no instances of overflow.