Networking Questions

1   Answers to MAC addresses

PC-A MAC: 74d4.dd5b.4efb

PC-B MAC: 9ceb.e822.3a03

S1 MAC: 001c.f97f.0301

S2 MAC: 0023.ac94.d301

PC-A OUI: 74d4dd

PC-A SERIAL: 5b4efb

PC-A VENDOR: Quanta Computer Inc.

PC-B OUI: 9cebe8

PC-B SERIAL: 223a03

PC-B VENDOR: BizLink (Kunshan) Co.,Ltd

S1 VLAN1 OUI: 001cf9

S1 VLAN1 SERIAL: 7f0301

S1 VENDOR: Cisco Systems, Inc

S2 VLAN1 OUI: 0023ac

S2 SERIAL: 94d301

S2 VENDOR: Cisco Systems, Inc

2 Reflection questions

Broadcasts at Layer 2.

A layer 2 broadcast would involve sending data on all ports, and since layer 2 is concerned with single communication links, the addresses would not cross into different networks? The address would be FF:FF:FF:FF:FF:FF, in that case.

Importance of MAC addresses.

Ip addresses, especially in a network where addresses are automatically assigned, do not tell you who is who, while a MAC address is supposed to uniquely identify the machine. Additionally if, for instance you were a network administrator in a large network, you could fetch the manufacturer behind a network card without leaving your chair by fetching the MAC address.