

Premier rattrapage

Q1: Describe the TCP/IP model, explaining the function of the four layers; use a diagram to show the structure.

Q2: Explain the action that a router performs upon receiving a packet for a remote network.

Q3: Describe the process used by Ethernet, using a flow chart, that allows multiple nodes to be connected the same network in order to transmit data.

Q4: Describe the DHCP process used in order for a PC to gain an IP address dynamically.

Q5: Explain the difference between connectionless and connection based packet switching.

Q6: What are the four general categories of security threat to a network?

Q7: What is IP spoofing and what can be done to protect against it?

Q8: What is the purpose of creating a security policy?

Q9: What are the three characteristics of a secure VPN?

Second rattrapage

Q1 (7points): Define what IPsec is, and the features and protection that it affords.

Q2 (6 points): Explain the concept of AH and ESP in the context of an IPsec tunnel. Use a diagram to show how they work.

Q3 (5 points): Define what a layer 2 switch is.

Q4 (5 points): Using a diagram, describe the operation of a layer 2 switch.

Q5 (5 points): Describe the process used by wireless (802.11), that allows multiple nodes to be connected to the same network in order to transmit data.

Q6 (5 points): Describe the DHCP process used in order for a PC to gain an IP address dynamically.

Q7 (6 points): Describe the three different types of DNS available, use a diagram to support your explanation.

Q8 (8 points): Describe the network security process of implementing the security policy (four stages).

Q9 (14 points): Explain the concept of a link state routing protocol.